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2d Session }

MEDICAL RESEARCH IN THE VETERANS' ADMINISTRATION

PREPARED BY
THE DEPARTMENT OF MEDICINE AND SURGERY
OF THE
VETERANS' ADMINISTRATION

JUNE 15, 1960

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LETTER OF TRANSMITTAL

VETERANS' ADMINISTRATION,
Washington, D.C., March 29, 1960.

Hon. OLIN E. TEAGUE,
Chairman, Committee on Veterans' Affairs,
House of Representatives,
Washington, D.C.

DEAR MR. CHAIRMAN: It is my honor once again to submit to you a report on the medical research within the Veterans' Administration. The scope and nature of the research program attest the quality of the professional staffs throughout the system whose research interests stem from their primary concern, the welfare of their veteran patients.

Sincerely,

SUMNER G. WHITTIER,
Administrator.

FOREWORD

Pursuant to the direction of the Congress, this "Report of Medical Research in the Veterans' Administration" is respectfully submitted. The Research Service in the Department of Medicine and Surgery has labored assiduously in the organization, implementation and facilitation of its basic responsibility. To consolidate the experience of the past year is an exacting but rewarding experience, in that it focuses attention upon the weight given, support afforded, and results achieved in the several areas of our obligation. For a readier reference, a new formulation of materials has been afforded. The subject material has been divided into two sections. The first will cover the general areas of research activity, with due attention to the results achieved. The second section will afford a listing of the specific research projects and will undoubtedly serve as a source reference to individuals interested or actual workers in the esoteric fields. We shall await with anticipation the reactions of the consumers.

With the amended financial support of the research program in the Veterans' Administration by the 85th Congress, there has come a resurgence of interest and participation in the widespread hospital system. This movement has aided materially in the recruitment and maintenance of professional staffs. By the same token, it has contributed materially to the assurance of the highest level of medical care to the American veteran.

To insure the sustained flow of research from the grassroots, 3 years ago the Research Service, in conjunction with the Education Service of the Department of Medicine and Surgery, initiated the Clinical Investigator Program. Under its terms, young men who have reached a stage of development equivalent to the requirements for certification may apply for this particular opportunity that affords three-quarters time to research and one-quarter to clinical practice in our hospitals. From this opportunity will come not only a potential source of productive research but recruitment of sustained professional strength. Last year, there was initiated a modest program of Senior Medical Investigators, by which term a limited number of proved investigators is assigned to full-time research functions. By this device there may be anticipated not only recognition of accomplishment but maintained research productivity that will redound to the credit of the agency.

After a program of any type sustained by public funds has been in operation for a period of years, the responsible agency should welcome a dispassionate review of its efforts from outside sources. The Veterans' Administration has contracted with the National Research Council, of the National Academy of Science, to undertake this task. With the appointment of an outstanding committee of recognized scientists and administrators and an able working staff, material prog-

ress in the study of the scientific, professional, and administrative aspects of the research program of the Department of Medicine and Surgery has been made. When the report is rendered, it should have great significance in the conduct of medical research not only in this agency but in other Government and privately supported programs as well. Whatever may be its deductions and recommendations, this Department will endeavor to conduct this program with diligence and prudence, as related to its mission and its responsibility to the Congress.

WILLIAM S. MIDDLETON, M. D.,
Chief Medical Director.

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Advisory Committees

The medical research program has the benefit of advisory guidance and assistance from five committees of physicians who are recognized authorities in various fields of specialization. This advice has been invaluable in planning the overall needs and policies of the program and in critically reviewing research performance in various VA research programs. These committees are:

ADVISORY COMMITTEE ON RESEARCH

(Established September 1955)

Joseph M. Hayman, Jr., M.D., *Chairman*, dean, Tufts University School of Medicine, Boston, Mass.

J. Burns Amberson, M.D., consultant, chest service, Bellevue, New York, N.Y.

W. Reece Berryhill, M.D., dean, University of North Carolina School of Medicine, Chapel Hill, N.C.

Carl A. Moyer, M.D., chairman, department of surgery, Washington University School of Medicine, St. Louis, Mo.

Harold G. Wolff, M.D., Anne Parrish Titzell professor of neurology, Cornell University Medical College, New York, N.Y.

ADVISORY COMMITTEE ON RADIOBIOLOGY AND RADIOISOTOPES

(Established September 1947)

Shields Warren, M.D., *Chairman*, director, Cancer Research Institute, New England Deaconess Hospital, Boston, Mass.

Hymer L. Friedell, M.D., professor of radiology, Western Reserve University School of Medicine, Cleveland, Ohio.

Perrin H. Long, M.D., professor of medicine, State University of New York College of Medicine, Brooklyn, N.Y.

Stafford L. Warren, M.D., dean, University of California at Los Angeles School of Medicine, Los Angeles, Calif.

ADVISORY COMMITTEE ON PROBLEMS OF AGING

(Established December 1955)

Ralph W. Gerard, M.D., *Chairman*, professor of neurophysiology, University of Michigan, Ann Arbor, Mich.

Edwin F. Gildea, M.D., head, department of psychiatry and neurology, Washington University School of Medicine, St. Louis, Mo.

Albert I. Lansing, Ph.D., professor of anatomy and chairman of the department, University of Pittsburgh School of Medicine, Pittsburgh, Pa.

Frederick J. Stare, M.D., professor and head, department of nutrition, Harvard University School of Public Health, Boston, Mass.
Eugene A. Stead, Jr., M.D., professor of medicine, Duke University School of Medicine, Durham, N.C.

ADVISORY COMMITTEE ON EDUCATION

(Established July 1952)

Stanley E. Dorst, M.D., *Chairman*, dean, University of Cincinnati College of Medicine, Cincinnati, Ohio.
Donald G. Anderson, M.D., dean, School of Medicine and Dentistry, University of Rochester, Rochester, N.Y.
Granville A. Bennett, M.D., dean, University of Illinois College of Medicine, Chicago, Ill.
George P. Berry, M.D., dean, Harvard University Medical School, Boston, Mass.
Joseph C. Hinsey, Ph.D., director, the New York Hospital-Cornell Medical Center, New York, N.Y.

SELECTION COMMITTEE FOR CLINICAL INVESTIGATORS

(Established November 1956)

J. Burns Amberson, M.D., *Chairman*, consultant, Chest Service, Bellevue Hospital, New York, N.Y.
Stanley E. Dorst, M.D., dean, University of Cincinnati School of Medicine, Cincinnati, Ohio.
Maxwell Finland, M.D., associate professor, department of medicine, Harvard University Medical School, Boston, Mass.
Carl A. Moyer, M.D., chairman, department of surgery, Washington University School of Medicine, St. Louis, Mo.
Harold G. Wolff, M.D., Anne Parrish Titzell professor of neurology, Cornell University Medical College, New York, N.Y.

MEDICAL RESEARCH IN THE VETERANS' ADMINISTRATION

SECTION I

THE VA MEDICAL RESEARCH PROGRAM

Introduction

The quality and accomplishments of any medical research program depend upon the originality, ingenuity, integrity, and intellectual maturity of the physicians and medical scientists who contribute to it. The current concept of medicine clearly establishes an inseparable relationship between patient care, research, and education. A thoroughly competent physician, therefore, must be proficient in each of these components, and such physicians will seek to associate with those institutions where adequate outlets for their capacities are available and encouraged. The VA medical research program operates in conjunction with the educational program in support of the agency's primary mission of providing to the eligible veteran the best available medical care. It thus affords the means by which the most competent physicians may be recruited and retained. Availability of such physicians in the VA assures not only the maintenance of the desired standard of patient care, but also operation of a research and education program of the highest quality. As a result the knowledge and skills of these physicians are enhanced, and their research accomplishments, disseminated through publication in medical journals and presentations before scientific meetings, serve to increase the wealth of medical knowledge, thereby contributing to the better medical care of both the veteran and the general public. Regardless of the focus of the moment, in this highly technical and increasingly instrumental age, the keen and inquiring minds of physicians and medical scientists remain as medicine's greatest asset.

During fiscal year 1959, of 3,799 full- and part-time physicians in the VA, 1,522 actively participated in the research programs in 128 hospitals. Of 2,517 residents, 555 engaged in research pertinent to their field of training. Also contributing significantly to the program were approximately 500 biochemists, chemists, bacteriologists, physicists, psychologists, and representatives of paramedical specialties, many of whom qualified as principal scientists. Supporting the overall research activities were 1,000 technicians, and administrative personnel.

Especially noteworthy has been the impact of the medical school-VA affiliation upon the research program. The enthusiastic collaboration between VA investigators and medical school faculty members, the free exchange of ideas and advice, and the reciprocal availability

of laboratory facilities and equipment have exemplified the highest ideals of medicine and have established a precedent for cooperative research on a scale never before possible in this country. From this splendid relationship have emerged the Senior Medical Investigator and the Clinical Investigator Programs. The latter, established primarily to provide research experience and training to especially promising young physicians, has clearly demonstrated the tremendous educational potential which exists in the VA. In the face of the growing national shortage of scientists and technicians, this potential must be more actively exploited in the future.

The Congress of the United States appropriated $15,344,000 for research in the VA during 1959. With this, 6,371 projects were supported through a decentralized, institutional type of budgeting. Of these projects, 1,761 were studies related to problems of aging. In this category there were 430 studies of cancer and allied diseases, 745 studies of cardiovascular diseases, 297 studies of nontuberculous pulmonary diseases, and 289 studies of other geriatric problems. When the research program is examined by categories of body systems and their diseases, another perspective is presented which can best be shown in the accompanying table. Of the total number, 2,030 projects were completed in fiscal year 1959 and 54 percent of these, 1,090, were published.

In spite of the accomplishments to the present time, the surface of the enormous research potential which exists in the VA has only been scratched. Shortages of competent physicians, inadequacies, and uncertainties of research budgets, and insufficient laboratory facilities have restrained and delayed the proper realization of this potential. These deficiencies can be corrected and with the growing national recognition of the accomplishment of VA investigators and the increasing appreciation by Congress of the research resources of the VA, it is expected they will be. Certainly, the unique potential within the VA for research in psychiatry, aging, and the chronic diseases must be further exploited. Of equal necessity is the continued exploration of areas of applicability and the broader utilization of instrumentation in medical research. Especially challenging in this regard is the problem of recording, storing, and retrieving of medical data. Finally, the need has become critical for modernization and expansion of laboratory facilities. Existing temporary and improvised laboratories are no longer adequate and cannot be modified to accommodate the growth and changing needs of the research program. Until now, specific consideration of research construction has not received adequate attention in long-term planning. The result of this has been neither practical nor economical. The availability in fiscal year 1960 of $1,500,000 specifically designated for research construction marks the gratifying beginning of the solution of this problem.

The research program of the VA must be considered as being inseparably associated with the educational program. Year after year, both augment and complement the program of patient care. In order for them to achieve their full potential they must be assured of continuity and must be allowed the opportunity to enjoy a realistic rate of growth.

A summary of the research studies conducted by VA investigators during fiscal year 1959 is shown in the following table:

TABLE 1.—*Annual report fiscal year 1959*

Category	Number of research projects
Total	6,371
Infectious diseases:	
Tuberculosis, all forms	381
Other	285
Cancer and allied diseases	430
Allergic, endocrine, metabolic, and nutritional disorders	760
Diseases of the blood and blood-forming organs	317
Mental, psychoneurotic and behavioral disorders	1,282
Nervous system and sense organ diseases	429
Heart and vascular diseases	745
Respiratory diseases, except tuberculosis	297
Digestive tract diseases, except dental	401
Dental disorders	96
Genitourinary diseases	152
Skin and cellular tissue diseases	77
Bone and joint diseases	197
Methods and techniques:	
Anesthesia	38
Surgery, not elsewhere classified	103
Radiology and X-ray	71
Toxicity and poisoning	13
All other, except radioisotopes	190
Radioisotopes, not elsewhere classified	227

Nature of the Program

The primary interest of VA physicians is the welfare of patients, and it is for the care of patients that the physicians are employed. Those who conduct research do so in addition to their regular duties. The VA research program is largely, therefore, a free contribution by the physicians in the VA hospital system. It attests to the caliber of the men whose curiosity, enthusiasm, vigor and ability are of such a high order that they of themselves make up the bulk of the entire group of all VA investigators. Those of the research group who are not physicians are of like competence in their fields. To some of these, research may be the primary interest and they may be employed accordingly. Physicians and nonphysician members together create, in a sense and definitely sustain, the research program. The program attracts other, and similar, professional personnel to the VA hospital system. As a natural concomitant, there is additional improvement in patient care.

Research in the VA system is considered a privilege. Any member of a VA hospital professional staff who is eager to do research presents his project as a proposal to the Research and Education Committee of the hospital in competition for funds and space with other staff members. His research can be in one of several directions with the approval of this committee.

Most of the research within the VA is by investigators working independently on their own individual projects. Others choose to collaborate with staff members of their own hospital or affiliated medical school to approach a common problem from several aspects simultaneously. Still others pool the observations they make on similar patients under similar treatment in different hospitals. This

last group takes advantage of one of the greatest opportunities offered by the VA, its unparalleled resources for the study of clinical conditions. This is made possible by the uniformity of its records and standards of excellence and the enormous numbers of its patients. In the VA system diseases which are rare in a single hospital or in the experience of a single investigator become relatively common as they are multiplied by the number of its hospitals.

The Research and Education Committee in each hospital is comprised of the physicians and scientists who are most sophisticated in research matters. Its membership must have the approval of the Assistant Chief Medical Director for Research and Education in Central Office. In those hospitals which are affiliated with medical schools two members of the faculty are appointed by the dean to this committee. These two need not be, although they usually are, members of the Dean's Committee. This latter group is composed of senior members of the medical school faculty. They are nominated by the dean but appointed to Dean's Committee by the Chief Medical Director of the VA. This committee acts as the pivotal body through which the VA hospital and the medical school are integrated.

The Research and Education Committee is charged with the administration of the research program in the hospital. The Assistant Director of Professional Services for Research serves as secretary to the committee and as the full-time coordinator of the program. The committee weighs the merits of the research proposals and decides upon the amount of money each should be allotted. Periodically, it reviews the progress of the projects and checks the status of the supporting funds. Its deliberations are forwarded regularly as minutes to Central Office. These measures enable both the hospital and Central Office to keep closely posted on research matters from both the financial and the scientific viewpoints.

In approximately 60 VA hospitals utilizing radioisotopes in research, a Radioisotope Committee, serving as a subcommittee of the Research and Education Committee, reviews proposals for uses of radioisotopes, approves radiological safety plans, and functions as the "local isotope committee" required by the Atomic Energy Commission. Work with radioisotopes is customarily centralized in special laboratories to assure safety and to avoid duplication of the expensive and specialized equipment required for radioisotope techniques. Availability of trained scientific and technical personnel, together with the specialized facilities for radioisotope utilization in research, has made possible many investigations which would otherwise be impossible or less precise. The VA has been a pioneer in application of radioisotope techniques to medical research and in use of radioisotopes for clinical diagnosis and therapy.

In addition to a whole body counter in use at VA hospital, Boston, Mass., a second one has been installed at VA center, Los Angeles, Calif., and a third is planned at VA hospital, Iowa City, Iowa. Those at Boston and Los Angeles use steel rooms fabricated from surplus armorplate, to reduce the background radiation naturally present, in order to make possible the measurement of extremely low levels of radioactive materials in the human body. The design for the shield at Iowa City provides for a room surrounded by a 5-foot thick layer of water, to accomplish similar results. This design is unique and is expected to be economical and effective.

At VA hospital, Omaha, Nebr., a nuclear reactor was installed and placed in operation in June 1959. This inherently safe reactor, in a pit below the basement level of the hospital, is being used to conduct research in neutron activation analysis, which allows measurement of elements present in biological specimens placed in the reactor and subjected to neutron bombardment. The resulting radioactivity of the sample is analyzed by a multichannel radiation analyzer. The reactor is also being used for production of short-lived radioisotopes, and for training purposes. Numerous volunteer investigators have applied for the chance to spend time in working at this facility.

In 31 VA hospitals having radioisotope laboratories, training has been provided for several hundred radiological defense monitors, for possible use in nuclear disaster or warfare. Equipment for training and possible operational use in monitoring was provided through the Office of Civil and Defense Mobilization. In addition, the radioisotope laboratories could serve an important role in civil defense emergency activities, in assay of samples for radioactivity and evaluation of hazards.

The investigators in the VA are free to seek other funds besides the research funds distributed by the Research and Education Committee. Grants from universities, industry or other Government agencies, and gifts from groups or individuals may be accepted for research. Such money is usually administered by the hospital, but when another Government agency is its source, the money is administered by the affiliated university. In no case can it be used to supplement the investigator's salary. The grants support a substantial portion of VA research. Since they are won by VA investigators in competition with those in universities and industry, this is further evidence of the excellence of the research within the VA.

The research program has been a large force in creating the close relationship of the VA with the country's medical schools and with other Government agencies.

Resources

Research Programs and Their Locations

The research programs supported within the Veterans' Administration are located in 128 hospitals, 6 outpatient clinics and 1 in the Veterans' Benefits Office. Geographically they are distributed in 44 States, the District of Columbia and Puerto Rico. Throughout the year it has been possible to maintain an excellent complement of an average of 1,518 full-time scientists and technicians to support 2,127 physicians and surgeons engaged in research. The unlimited resources, in types and diversity of diseases, opportunities for geographical, climatological, rural, urban, and industrial medical problems, provided by this distribution of medical research programs present both a challenge and an opportunity unequaled anywhere else in the world.

The 128 Veterans' Administration hospitals, 6 outpatient clinics, and the Veterans' Benefits Office are provided with laboratory facilities, which include animal quarters when required, where a total of 263 varying types of medical research programs are in progress. The location of these hospitals by State and city and the types of programs in each are shown in table 2.

The quality and completeness of physical facilities, while maintained at a generally satisfactory status, has not maintained a comparable level with the quality of professional, scientific and technical personnel attracted to the potential existing in the Veterans' Administration hospitals. Laboratory facilities such as space and equipment lag behind the needs presented by the expansiveness of the program. Laboratories for fundamentally basic scientific problems relating to the nature of diseases, investigations requiring animals and clinical research are required. Many requests for support of research are postponed indefinitely because of the inability to provide the laboratories needed.

Many requests currently unsupported forecast a need for approximately 15,000 to 20,000 square feet of laboratory space on an average basis as compared to the actual existing average areas of approximately 9,000 square feet per hospital.

TABLE 2

State and city	Type of station	Type of program				
		GMS	Radio-isotope	Dental	Neuro-psychiatric	Tuberculosis
Alabama:						
Birmingham	GMS hospital	X	X	X		X
Tuskegee	NP hospital	X				
Arizona:						
Tucson	GMS hospital					X
Whipple	do	X				X
Arkansas:						
Fayetteville	do	X				
Little Rock	do	X	X			
North Little Rock	NP hospital				X	
California:						
Fresno	GMS hospital	X	X			
Livermore	TB hospital					X
Long Beach	GMS hospital	X	X	X	X	X
Los Angeles	do	X	X	X		
Brentwood Division	NP hospital				X	
Oakland	GMS hospital	X				X
Palo Alto	NP hospital				X	
San Fernando	TB hospital					X
San Francisco	GMS hospital	X	X			
Sepulveda	NP hospital		X		X	
Colorado:						
Denver	GMS hospital	X	X		X	
Do	Outpatient clinic [1]				X	
Grand Junction	GMS hospital	X				
Connecticut:						
Newington	do	X				
West Haven	do	X	X		X	X
Delaware: Wilmington	do	X				
District of Columbia:						
Washington (Mount Alto)	do	X	X		X	X
Washington VBO	Outpatient clinic [1]	X			X	
Florida:						
Bay Pines	GMS hospital	X	X	X		
Coral Gables	do	X	X			X
Lake City	do	X				
St. Petersburg	Outpatient clinic	X				
Georgia:						
Atlanta	GMS hospital	X	X			X
Augusta	NP hospital	X			X	
Illinois:						
Chicago:						
West Side	GMS hospital	X	X		X	
Research	do	X	X		X	
Chicago	Outpatient clinic [1]				X	
Downey	NP hospital	X			X	
Hines	GMS hospital	X	X	X	X	X

[1] In regional office.

TABLE 2—Continued

State and city	Type of station	Type of program				
		GMS	Radio-iso-tope	Dental	Neuro-psychi-atric	Tuber-culosis
Indiana:						
Indianapolis	TB hospital					X
Do	GMS hospital	X	X		X	
Iowa:						
Des Moines	do	X				
Iowa City	do	X	X	X		
Kansas:						
Topeka	NP hospital				X	
Wadsworth	GMS hospital	X				X
Wichita	do	X				
Kentucky:						
Lexington	NP hospital				X	
Louisville	GMS hospital	X	X		X	
Louisiana:						
Alexandria	do	X				X
New Orleans	do	X	X			
Maryland:						
Baltimore	TB hospital		X			X
Fort Howard	GMS hospital	X	X			
Perry Point	NP hospital	X			X	
Maine: Togus	GMS hospital	X				
Massachusetts:						
Bedford	NP hospital				X	
Boston	Outpatient clinic [2]	X			X	
Boston (Boston Division)	GMS hospital	X	X		X	
Boston (West Roxbury Division)	do	X				
Brockton	NP hospital				X	
Northampton	do				X	
Rutland Heights	TB hospital					X
Michigan:						
Ann Arbor	GMS hospital	X	X		X	X
Battle Creek	NP hospital				X	
Dearborn	GMS hospital	X				X
Saginaw	do	X				
Minnesota:						
Minneapolis	do	X	X		X	X
St. Cloud	NP hospital				X	
Mississippi:						
Biloxi (Biloxi Division)	GMS hospital	X		X		
Biloxi (Gulfport Division)	NP hospital				X	
Jackson	GMS hospital	X				
Missouri:						
Jefferson Barracks	NP hospital				X	
Kansas City	GMS hospital	X	X		X	X
St. Louis	do	X	X		X	X
Montana: Fort Harrison	do	X				
Nebraska:						
Lincoln	do	X				
Omaha	do	X	X		X	
New Hampshire: Manchester	do	X				
New Jersey:						
East Orange	do	X	X		X	X
Lyons	NP hospital				X	
New Mexico: Albuquerque	GMS hospital	X	X			X
New York:						
Albany	do	X	X			X
Batavia	do	X				X
Bath	do	X				
Bronx	do	X	X	X		X
Brooklyn	do	X	X	X		
Do	Outpatient clinic [2]	X				
Buffalo	GMS hospital	X	X			
Canandaigua	NP hospital				X	
Castle Point	TB hospital			X		X
Montrose	NP hospital				X	
New York	Outpatient clinic [1]	X				
Do	GMS hospital	X	X		X	X
Northport	NP hospital				X	
Sunmount	TB hospital					X
Syracuse	GMS hospital	X	X		X	X
North Carolina:						
Durham	do	X	X		X	
Oteen	TB hospital	X				X

[1] In regional office.

[2] Independent clinic.

TABLE 2—Continued

State and city	Type of station	Type of program				
		GMS	Radioisotope	Dental	Neuropsychiatric	Tuberculosis
Ohio:						
Brecksville	TB hospital					X
Cincinnati	GMS hospital	X	X		X	
Cleveland	do	X	X			
Dayton	do	X				
Oklahoma:						
Oklahoma City	do	X	X		X	
Muskogee	do	X				
Oregon:						
Roseburg	NP hospital				X	
Portland	GMS hospital	X	X			X
Pennsylvania:						
Butler	TB hospital					X
Coatesville	NP hospital				X	
Lebanon	do				X	
Philadelphia	GMS hospital	X	X		X	
Pittsburgh	NP hospital				X	
Do	GMS hospital	X	X			
Wilkes-Barre	do	X				
Puerto Rico: San Juan	do	X	X			
Rhode Island: Providence	do	X				X
South Carolina: Columbia	do				X	
South Dakota: Fort Meade	NP hospital				X	
Tennessee:						
Memphis (Kennedy)	GMS hospital	X	X		X	X
Mountain Home	do	X				
Nashville	do	X	X			X
Texas:						
Dallas	do	X	X			
Houston	do	X	X		X	X
Kerrville	TB hospital					X
McKinney	GMS hospital	X				
Waco	NP hospital				X	
Utah:						
Salt Lake City	GMS hospital	X	X			
Do	NP hospital				X	
Vermont: White River Junction	GMS hospital	X				
Virginia:						
Kecoughtan	do	X			X	
Richmond	do	X			X	X
Washington:						
American Lake	NP hospital				X	
Seattle	GMS hospital	X	X		X	
Walla Walla	do					X
West Virginia:						
Clarksburg	do	X				
Huntington	do	X	X			
Martinsburg	do	X	X			
Wisconsin:						
Madison	TB hospital	X	X			X
Tomah	NP hospital				X	
Wood	GMS hospital	X	X			X
Total		94	54	10	61	44

The Clinical Investigator Program

Continuing revitalization of research activity can best be effected through a specific program designed to attract fresh creative talents and personalities into the group. In 1956 the Veterans' Administration Clinical Investigator Program was announced. The program was designed as an opportunity for young physicians who have completed his clinical training and demonstrated their research ability to spend a major portion of their time in research for a period of up to 3 years. This concentrated effort in research broadens and refines their experience so that at the conclusion of this assignment the investigator has reached the level of accomplishment of an inde-

pendent investigator. He is then uniquely qualified through his educational experience in both clinical medicine and research to exert effective leadership as he takes on major responsibilities in the patient care program on a full-time basis.

A careful selection process was established to choose the most outstanding young physicians for this special appointment of Clinical Investigator. A candidate is first evaluated by the VA hospital Research and Education Committee as well as by the Dean's Committee which represents the affiliated medical school. On their approval he is nominated to the Selection Committee for Veterans' Administration Clinical Investigators. This extra-VA group of eminent physicians then selects only the most outstanding candidates for appointment.

The 38 clinical investigators who have been working in 28 different Veterans' Administration hospitals during the past year are listed below with a brief reference to the general field of each investigator's research interest.

Ann Arbor, Mich.:

Richard D. Judge, M.D., "Cardiovascular Physiology and Disease: Excretion and Distribution of Digitalis and Quinidine."

Atlanta, Ga.:

John A. Ward, M.D., "Endocrine Aspects of Cancer and Aging."

Birmingham, Ala.:

William B. Jones, M.D., "Cardiology: Ballistocardiography."

Boston, Mass.:

Ezra Lamdin, M.D., "Membrane Phenomena: Problems of Permeability, Active Transport, Electrical Phenomena, and Cellular Metabolism, with Possible Application to Renal Physiology."

Bronx, N.Y.:

Stanley B. Ulick, M.D., "The Role of Adrenal Cortex in the Formation of Edema; the Adrenal Cortex as a Factor in Hypertension."

Chicago, Ill. (Research):

Francis J. Haddy, M.D., "Cardiovascular Physiology and Disease."

Cincinnati, Ohio:

Albert W. Schreiner, M.D., "Leukemia: Studies on Its Transmission, Natural Course, and Therapy."

Cleveland, Ohio:

M. Lawrence Heideman, M.D., "Studies on Anterior Pituatory Thyrotropic Hormone."

Dearborn, Mich.:

Raymond C. Christensen, M.D., "Cardiovascular Physiology and Disease."

Edward R. Powsner, M.D., "Hematology: Investigation of Erythropoietin and Erythropoietic Factors."

Durham, N.C.:

Ernest A. Chick, M.D., "Interrelation of Properdin, Lysozyme, and Complement with Infection in Patients with Leukemia and Lymphoma; Medical Mycology."

Robert L. Green, M.D., "Psychiatry: Etiology of Delirium; the Electroencephalogram in Various Disease States."

James O. Wynn, Jr., M.D., "Metabolic Diseases: Thyroid Disease and the Thyroid Hormones."

Iowa City, Iowa:

David C. Funk, M.D., "Cardiovascular Physiology and Disease."

Kansas City, Mo.:

William E. Ruth, M.D., "Pulmonary Physiology and Disease."

Los Angeles, Calif.:

Seymour Dayton, M.D., "Atherosclerosis and Lipid Metabolism."

Lucien B. Guze, M.D., "Infectious Diseases: Pathogenesis and Natural History of Clinical and Experimental Pyelonephritis: Electronic Computers in Medical Research."

Stewart G. Tuttle, M.D., "Studies on Calcium and Phosphorus Metabolism, Iron Metabolism, and Amino Acid Metabolism in Aging Individuals."

Minneapolis, Minn.:

Carl S. Alexander, M.D., "Cardio-Renal and Metabolic Disease with Special Emphasis on Antidiuretic Hormone."

Alfred Doscherholmen, M.D., "Hematology: Metabolism of Vitamin B_{12}

Nashville, Tenn.:

Joseph M. Merrill, M.D., "Cardiopulmonary Physiology and Experimental Atherosclerosis."

New Orleans, La.:

Robert P. Cameron, M.D., "Cardiopulmonary Physiology and Disease."

New York, N.Y.:

Marion C. Isaacs, M.D., "Cardiovascular and Renal Physiology and Disease."

Oklahoma City, Okla.:

Harold G. Muchmore, M.D., "Infectious Diseases, Metabolic Differences in Isoniazid Sensitive and Resistant Tubercle Bacilli."

Alexander H. Woods, M.D., "Immunochemistry: Delayed Hypersensitivity, Enzyme Inhibition by Antisera; Problems in Immunohematology."

Philadelphia, Pa.:

Robert P. Arthur, M.D., "Physiology and Disease of the Skin With Special Reference to the Cutaneous Nervous System."

Richmond, Va.:

Allan L. Forbes, M.D., "Nutrition and Metabolic Disease: Lipid Metabolism, Nutritional Deficiency and Malabsorption Disorders, Renal Amino Acid Metabolism."

St. Louis, Mo.:

Neil I. Gallagher, M.D., "Hematology: Humoral Regulation of Erythropoiesis."

Salt Lake City, Utah:

Lindy F. Kumagai, M.D., "Metabolism of Adrenocortical Steroids and Thyroid Hormones."

San Francisco, Calif.:

James S. Arnold, M.D., "Pathology and Radiobiology, Human Bone as a Function of Age and Disease."

Elizabeth B. Reed, M.D., "Uric Acid Metabolism in Man; Zoxazolamine in the Therapy of Gout."

Seattle, Wash.:

Wayne A. Crockett, M.D., "The Influence of Natural Isotopes on Cell Growth."

Syracuse, N.Y.:

Robert Gilbert, M.D., "Cardiopulmonary Physiology and Disease."

Lawrence G. Raisz, M.D., "Renal Physiology, Salt and Water Metabolism, Mechanism of Parathyroid Hormone Action."

West Haven, Conn.:

Harold O. Conn, M.D., "Clinical Aspects of Ammonia and Protein Metabolism in Liver Disease: The Production of Portal Systemic Collaterals."

Patrick J. Mulrow, M.D., "The Mechanisms Regulating the Secretion of Aldosterone by the Adrenal Gland."

West Roxbury, Mass.:

James M. O'Hare, M.D., "Blood Volume Studies in Paraplegics."

Wood, Wis.:

A. Stephen Close, M.D., "Problems of Brain Metabolism Associated With Extracorporeal Circulation."

The Senior Medical Investigator Program

In January 1959, the Chief Medical Director announced the inauguration of the new Senior Medical or Dental Investigator Program. This program is designed to give recognition to individuals who have distinguished themselves in research in the VA and who give promise of continued leadership and productivity in research. The appointment is limited to a small number of unusually well-qualified investigators. After careful deliberation over a period of many months, the selection of the first two senior medical investigators was announced. Dr. Samuel H. Bassett of the VA Center, Los Angeles, and Dr. Edward D. Freis of the VA Hospital, Washington, D.C., accepted this appointment and were to be named senior medical investigators at the beginning of the new fiscal year.

Dr. Bassett was Assistant Director of Professional Services for Research at Los Angeles at the time he was given this recognition. His major research contributions have included metabolic studies in nephrosis and nephritis, osteoporosis, parathyroid disorders, steroid function and nutrition. His current research is on calcium phosphorus and protein metabolism in disease states.

Dr. Freis, Chief, Medical Service, at Washington, D.C., at the time of his appointment, is widely known for his outstanding research on

hypertension. His research concerns the newer drugs for hypertension as well as extensive studies on hemodynamics. Among many other activities, Dr. Freis is coordinator of the VA's 11-hospital study of new antihypertensive agents.

The senior investigators are permitted to work independently on research of their own choosing. They may accept teaching and patient-care responsibilities, but the primary focus is on their research activities and they are supported directly from research funds.

Research in Psychiatry, Psychology, and Neurology

The Veterans' Administration continues to explore and develop its research attack on the VA's, and the Nation's, No. 1 medical problem—mental illness. Because of the lack of knowledge of the etiology of mental illness and the paucity of information on the efficacy of current methods in effecting permanent recoveries, a wide variety of research approaches is encouraged, ranging from the biological and neurophysiological to the psychological and sociological and to anthropological studies of behavior.

Studies concerning the biological correlates of behavior, relationships of the central and autonomic nervous systems and the effects on behavior of biochemical, neurochemical and neurophysiological reactions are underway in many VA hospitals. Studies are also being conducted to measure the effects of sensory deprivation, reactions to stress and conflict, the ability to learn new habits of behavior, and reactions to tranquilizing drugs and other psychopharmacologic agents. The neurophysiological research seeks further knowledge about the function of the central nervous system in health and disease, and attempts to discover any biological or neurophysiological malfunction in the most common psychosis, schizophrenia, and in aging. Schizophrenic patients make up over 75 percent of hospitalized psychotic veteran patients, and more than 40 percent of them are above 45 years of age.

Many current studies focus on the relationship of electrocortical stimulation of the brain to perception and learning, and one investigator has developed an electronic device for measuring cortical reception of sensory impulses. Concomitantly with the biological appoach, psychologic and sociologic correlates of malfunctioning behavior are also being studied.

Psychologic, sociologic and anthropologic studies are also underway investigating interpersonal relationships, the studies of attitudes and how they change, the behavior of persons in groups, the effects of environmental variables upon behavior, and the significance of communication in the process of adjustment. Several studies are underway to determine the relative effectiveness of current therapeutic modalities such as individual psychotherapy, group psychotherapy, patient government and member employee programs, and other rehabilitative measures.

The VA has initiated large-scale cooperative studies evaluating the effectiveness of psychopharmacologic agents with psychiatric patients. These studies have not only added a considerable amount of new medical knowledge relating to the use of tranquilizers and other agents but have also stimulated individual research projects on these

drugs and interest in related problems. These include development of measures to predict changes in behavior, methods of assessing the long-term effects of drug agents after patients have been discharged, and new diagnostic tools. Three large-scale cooperative studies involving several hundred patients have now been completed in VA hospitals and the data-gathering stage has been completed for a large-scale cooperative study of psychiatric outpatients in VA's mental hygiene clinics. The results of these studies are presented at an Annual Research Conference on Chemotherapy in Psychiatry, and four volumes have been published by the Veterans Administration describing the research reports at these meetings. Requests for these VA publications have been received from medical personnel throughout the world. The first two studies have also been published in the American Medical Association Archives of General Psychiatry, February 1960, and the other studies have been submitted to appropriate medical journals for publications. Much of this research has already proved of practical value. For example, two techniques were developed independently by different research investigators to determine the amount of phenothiazines in the urine. These tests provide the physician with means of checking on the reliability of the hospitalized psychotic patient for taking his prescribed medication. These techniques have attracted the attention of medical people throughout the United States and Canada, and persons have adopted these procedures as a part of their treatment programs.

Extensive studies have been made of the complications (side effects) induced by tranquilizing drugs, and it has been concluded that no serious side effects are to be expected when the dosage levels are built up gradually. The cooperative studies have also demonstrated the effectiveness of the phenothiazines in reducing the symptoms (abnormal behavior) of schizophrenic patients. Prior to these studies there were relatively few in which adequate controls were used and the conclusions were frequently based on numbers which were too small to resolve conflicting opinions about the tranquilizers. The VA cooperative studies are providing unequivocal evidence of the value of certain of these drugs in the treatment of schizophrenic reactions. Many extra-VA investigators have borrowed our protocols and use the VA instruments for measuring changes in patients' behavior.

Among the new investigations in the field of neuropsychiatry are two new cooperative studies now underway in which the VA is determining the efficacy of psychic energizer drugs. There have been improvements made in design of experiments to produce information on the attitudes of staff and patients toward mental illness. All part of one such study is a followup of patients for a 1-year period to trace the natural history of depressions and the extent to which beneficial effects of treatment may persist.

Significant approaches to the study of neurological disorders are also being made. Among these is a pilot study now underway to determine if spirochetes can be found regularly in the blood or cerebro-spinal fluid of patients with clinically established multiple sclerosis. Electromyelograms are being made in various muscle diseases and disorders, such as muscular dystrophy, myotonia, periodic paralysis and fatigue states. Another basic study is a microelectrode investigation of the nature, origin, and propagation of the nerve im-

pulse within the nerve cell. The epilepsy and EEG studies continue in the special Epilepsy Research Laboratory at the VA Hospital, Boston. Histochemical studies now underway should give fundamental information about the effect of antimetabolite substances on the central nervous system.

Within the VA the research attack on mental illness is vigorous, broad and pointed.

Tuberculosis

Despite further reduction in the number of tuberculosis patients requiring hospital care, research workers in the VA continue their efforts toward control and eventual eradication of this disease. More than 381 individual tuberculosis research projects were reported from our centers, hospitals, clinics, and laboratories in the past year. In addition, the VA-Armed Forces Cooperative Studies in Tuberculosis continue their role in large-scale critical evaluation of newer treatment for tuberculosis.

A. Among the cooperative studies the following are of special interest:

(*1*) *Evaluation of new drugs*

During the past year cooperative studies of five different drug regimes have been completed and published or submitted for publication in leading medical journals. Among these were studies on streptovaricin, pyrazinamide, cycloserine, thiocarbanidin, and kanamycin. Still in progress are cooperative studies with newer drugs such as thioamide and with kanamycin in lower doses combined with other agents to improve its effectiveness while attempting to eliminate its toxic side-effects.

(*2*) *Late followup studies*

The followup study of 200 patients treated on VA-Armed Forces cooperative studies who survived tuberculous meningitis for more than 3 years has yielded valuable and encouraging original information on the ability of these patients to work and function in society. Before effective drug treatment, this condition was always fatal and even in drug-treated survivors was often severe and disabling in its neurological and mental aftermath.

Followup studies on patients treated for tuberculosis of the bones, joints, and of the kidney, as well as of those with tuberculosis of the lungs are continuing.

(*3*) *Bacteriology laboratory*

The Cooperative Study Bacteriology Laboratory in Atlanta is in full operation and is contributing its services and skill to some of our newer studies.

(*4*) *Atypical mycobacteria*

In order to increase our understanding and improve our treatment of the chronic lung disease caused by unusual tuberculosis-like organisms, a case register is being started to determine what the volume and distribution of patients with this disease in the VA may be. From this register, the followup of these patients will permit the evaluation of their treatment and the development of new and more definitive research approaches to this problem.

B. The study of airborne transmission of tuberculous infection is nearing completion. A final report of the basic study is expected within the next year and should help to put the problem of airborne transmission of tuberculosis, other respiratory infections and, in fact, the problem of intra-hospital spread of infection generally in somewhat better focus.

Problems of Aging

The average age of the nearly 23 million veterans has now passed into that time of life when more persons have more serious physical ailments, and mental disorders increase in frequency. At 40 years of age there begins an increase in the occurrence rates of many illnesses which becomes striking by the age of 45. Among the conditions which increase in frequency are those which cause the most hospital admissions for the longest periods of time and those which require only short-term hospitalization but lead to serious disability. Examples of the first category are heart and vascular disease, cancer and arthritis, and of the second group, diabetes and glaucoma.

The increase in the demands on the VA system that will be caused by this imminent and enormous influx has placed "aging" in first place among the agency's concerns. It is of extreme importance that every possible way to check the flood be investigated. No chance of finding methods to keep more veterans happy and well must be left unexplored.

The Research-in-Aging Division was established with the thought that this division would stimulate interest in areas where little research was being done and would implement and support projects showing promise of benefit to elderly veterans. Much of the research being carried on in the VA system is logically classified as research in aging but any investigation of any aspect of the conditions which increase with age could properly be put under this heading. This would include, for example, all research in malignancy, heart disease, arthritis, diabetes, and glaucoma. When research in aging is considered as including these and other conditions which increase with age, it can be said that much more than one-quarter of the entire research program is devoted to problems of aging. And it can be said with assurance that no areas of known importance are being left uninvestigated.

Dental Research

The objective of the VA dental research program is to increase the knowledge of diseases and malformations of the oral cavity which represent highly prevalent health hazards. By increasing our knowledge of these conditions, treatment methods may be developed to improve the oral health and thus the general health of the veteran patients.

During the past fiscal year continued progress was made in the orderly development of a sound program of dental research. One of the more significant developments has been the acceleration of studies concerned with the early detection, identification, and treatment of oral cancer. Oral cancers account for 5 to 7 percent of all malignancies. Therefore, the oral examination which is an integral part of the physical examination of hospitalized patients presents a responsi-

bility and a challenge to the dentists in the VA service. During fiscal year 1959 more than 300,000 oral examinations were made in VA hospitals.

In addition to fundamental studies in oral cancer, clinical investigations are being conducted to improve treatment methods and to provide better diagnostic techniques. The pilot study on oral exfoliative cytology being conducted at VA Hospital, Brooklyn, N.Y., has shown considerable promise and the findings to date indicate a high percentage of agreement with biopsy results. If the rate of agreement is maintained, it is planned to expand this project from the five stations now cooperating to a larger number in order to acquire enough cases to thoroughly test the technique. While it is not intended as a substitute for biopsy, it could be an additional tool, involving a fast and simple technique to be incorporated into all oral examinations. It could be particularly valuable for the detection of unsuspected lesions long before they reach the stage where they are clinically evident and a biopsy is indicated.

Oral and dental conditions associated with aging are receiving much attention and several new projects in this area were initiated during the year. Since it is evident that VA patients in this category will increase rapidly in the immediate future, there is need for additional investigations of conditions inherent in this age group and of methods of rendering better dental service to older patients.

Dental research is conducted in a variety of ways and encompasses a wide range of subjects. An investigator may work alone on his own ideas in the clinic or laboratory or in collaboration with others in the hospital interested in the same problem. There are also a number of investigations conducted in collaboration with investigators in academic institutions and other Federal agencies.

The national shortage of professional and scientific manpower has affected dentistry as it has other disciplines of the medical research program. However, it is hoped that the various programs being undertaken by educational institutions and the Federal agencies, to train dental and scientific personnel in research and teaching, will alleviate this situation. This should make available a larger percent of dentists engaged in patient care who are interested and capable of initiating and conducting research projects which can be expected to result in improved methods of treatment.

The increased interest in investigations by members of the VA dental service has been most encouraging and is manifested by the number of studies listed in other sections of the annual report and by the number of publications appearing in professional and scientific journals.

As encouraging as it is, however, it is evident that the dental research effort is small when the tremendous potential for both basic and applied research afforded by the VA hospital system is considered. If the present limited staffs can be augmented to satisfy more fully the patient care program, greater expansion of research activities would be possible. This in turn could be expected to enhance the proficiency of the professional staffs through the adoption of new concepts of diagnosis and treatment and further improve the quality of dental care. Thus the dental research potential could be more fully realized and the continued growth of the dental research program assured.

Studies With the National Research Council

All studies which are financed by the Veterans' Administration are included, as well as those not financed by VA but which rely on the use of VA records.

1. Followup Study of Head Wounds (Walker et al.)—VA

This large cooperative study of the late effects of head wounds, with particular emphasis on post-traumatic epilepsy, nears completion. With the aid of the National Institutes of Health a 15-year followup of selected men is now being accomplished.

A paper embodying aspects of the results was presented to the Harvey Cushing Society and has been published as, Walker, A. Earl and Jablon, S.: "A Followup of Head-Injured Men of World War II," J. Neurosurg. *16*: 600–610 (No. 6) 1959.

2. Hodgkin's Disease—VA

Work advanced on the preparation of an extended report on the natural history of Hodgkin's disease, including epidemiological aspects as well as the course of the disease with respect to morbidity, disability, and mortality.

3. Incidence of Tuberculosis in Navy Recruits—USPHS

This is a long-term investigation, supported by the Public Health Service, of the relative importance of endogenous and exogenous infection in the development of tuberculosis in young men. During the year, accumulation of data continued.

4. Isoniazid in the Treatment of Multiple Sclerosis (Nagler et al.)—VA

Participants from 11 VA hospitals contributed patients to this clinical trial during the period November 1954 through November 1955, and have continued to follow them on an annual basis. The effects of treatment after 9 months of followup were reported in the Journal of the American Medical Association in 1957. It is now planned to obtain a thorough reevaluation of all patients during the fifth followup year, November 1959 through November 1960, and to terminate the study. These results possibly will be ready for publication during early 1961.

5. Rheumatoid Arthritis (Engleman et al.)—VA–NIH

This is a study of prognosis for extension of the disease measured by clinical examination among white males according to manifestations of chronic rheumatoid arthritis when first diagnosed in an Army hospital. A comparison of demographic characteristics of men with Army-diagnosed disease and of a sample of the Army white male population will be made for the determination of differential incidence rates.

A 20-percent sample of new admissions to Army hospitals in 1944–45 with a diagnosis of rheumatoid arthritis has been processed to determine the VA regional office having custody of each man's records. The results indicate that about one-tenth of the 600–700 veterans on whom clinical examinations are desired are accessible to the proposed San Francisco study center.

The clinical study will be conducted as planned in San Francisco with the addition of other study centers at a later date.

6. Mustard Gas and Postinfluenza Pneumonia in World War I in Relation to Lung Cancer—NIH

The results of this study have been incorporated in a paper which, it is hoped, will be published this year in the Journal of the National Cancer Institute. The evidence is equivocal as to the carcinogenicity of mustard gas.

7. Medical Genetic Studies of Veteran Twins—NIH-VA

This study has as its object the creation of a roster of twins, both members being veterans of World War II, diagnosed as monozygotic or dizygotic pairs. Medical histories during and after military service will be abstracted from records of the armed services and the Veterans' Administration, and the men will be followed through future years to learn of their subsequent illnesses and causes of death. It is expected that comparisons of concordance with respect to specific conditions in monozygotic and dizygotic pairs will throw light on the relative roles of genetic and nongenetic factors in etiology. The roster and the accumulated information about its members are visualized as a national resource for studies in the genetics of disease, available to qualified investigators for specialized investigations.

The task of identifying twins is almost finished. Three States have not yet completed searches of their files of birth certificates, but more than 12,000 pairs of twins have been identified. Search of files of medical records in the Department of Defense Records Center has been started.

This project is financed jointly by the National Institutes of Health and the Veterans' Administration.

8. Natural History of Lumbar Disc Lesions (Woodhall et al.)—VA

The planning for this study has progressed during fiscal year 1959 through revision of the protocol, development of abstracting forms, and exploration of rosters. At the first meeting of the clinical participants, the decision was made to carry out a small pilot study before attempting to refine the procedures.

On the basis of present information, it is estimated that there can be identified approximately 1,000 individuals who were operated upon for a ruptured disc prior to discharge from the Army during World War II. One of the major topics for discussion during the next meeting of participants will be the criteria for selection of valid cases of herniated nucleus pulposus from among the many men who did not receive surgical treatment prior to discharge. Once these criteria are specified, roster development should proceed rapidly.

At present it seems necessary to review records briefly in order to select those for study. This preliminary review probably can be made by the agency, with medical guidance. Cases included in the study will be assigned to participants for reexamination on a geographical basis. The participants also will be responsible for a detailed records review for each case.

9. Natural History of Multiple Sclerosis (Nagler et al.)—VA

This large records study consists of three major parts:

(*a*) Progression from acute retrobulbar neuritis to multiple sclerosis.

(*b*) Progression of multiple sclerosis in relation to prognostic factors.

(*c*) Epidemiology of multiple sclerosis.

Records abstracting for part (*a*) has been completed, and the data have been transferred to punched cards in preparation for tabulation. Early results clearly indicated a need for current clinical examinations, which will be made through the National Institute of Neurological Diseases and Blindness. Although large sections of the study could be completed within a short time, a report of findings will be delayed until the examinations have been completed.

Part (*b*) consists of a detailed search of the Army and VA records of about 850 men. The details of this procedure were largely settled during fiscal year 1959, and records abstracting for approximately one-third of the cases has been completed. The remaining cases should be completed during the coming year. After obtaining questionnaire results from all cases without a recent VA medical contact, it is hoped to examine a representative sample of these cases.

In part (*c*) the multiple sclerosis cases will be compared with matched controls on a variety of variables of potential epidemiologic relevance. Control selection and records review have been completed. Further progress awaits completions of the cases in part (*b*).

10. Coronary Heart Disease in Young Army Males, NIH

Records of admissions to service hospitals in 1943 and 1944 showing a final diagnosis of anginal syndrome, coronary arteriosclerosis, coronary thrombosis, or myocardial infarction, form the basis of this study of prognosis in relatively young males with coronary heart disease. Two-thirds of these cases were less than 45 years of age at diagnosis. An important feature of the study is the systematic review of clinical findings and electrocardiograms by cardiologists to confirm the diagnoses and define a subgroup with unequivocal myocardial infarction. Although directed primarily at precise evaluation of prognosis, the study will make some attempt to determine differential incidence and other facts relevant to an investigation of the epidemiology of coronary heart disease. The acquisition, coding, and punching of information near completion, and analysis of the data will soon begin. This study has been supported by a National Institutes of Health grant.

11. Adjuvant Cancer Chemotherapy Study (North et al.), VA

The followup agency has the responsibility for statistical aspects of this study, the purpose of which is to test the effectiveness of nitrogen mustard and thiotepa as an adjuvant to surgery in preventing the postoperative recurrence of cancer. Almost continuous scrutiny of the data has been necessary and, in fact, evidence suggestive of a possible adverse drug effect resulted in the substitution of new compounds for the drugs originally under study (nitrogen mustard and thiotepa).

Trials of nitrogen mustard and thiotepa were resumed at reduced dosage levels in a double-blind study. Therapy packages which bear labels coded as to their contents of drug or placebo are assembled and distributed by the agency to the surgical investigators for assignment to patients. More than 1,000 packages were assembled and distributed to the hospitals initially. A supply of drug, placebo, and packaging materials is maintained by the agency and additional therapy pack-

ages are assembled on request. The continuous scrutiny of mortality data has been continued.

More than 1 year has elapsed since the full-dosage drug trials were discontinued. The continued evaluation of results now has been extended to late postoperative differences between treated and control patients.

12. Anticoagulant Therapy in Cerebral Vascular Disease (Auth et al.), VA

During the first 15 months of study, 9 VA participants have screened over 1,000 patients. Approximately 180 were found acceptable according to the standardized criteria in use. The study group met twice during fiscal year 1959 to review progress, to discuss problems, and to consider the future course of study.

The agency provides statistical services for this cooperative study. These services involve the routine processing of forms and the preparation of progress reports. It is anticipated that a preliminary report of findings will be made during fiscal year 1960, but a final report will not be possible for another year or two.

13. Japanese B Encephalitis (Grossberg et al.), VA–NIH

This is a study of late sequelae of Japanese encephalitis among servicemen who developed the disease in the Far East. The study protocol provides for a clinical examination of men who had serologically confirmed JE in 1950 and for a comparison of the hospital contacts and VA disability experience of all JE men and their matched controls.

Rosters of men hospitalized in the Far East with JE have been assembled, and the Army and VA medical records in a sample of claims folders were reviewed to determine the amount of clinical information available concerning the acute illness and subsequent disabilities. In addition, a pilot study of records was conducted, using 1950 cases and matched controls, which suggest that neuropsychological abnormalities will be found with significant frequency among the men who had JE.

14. Ulcerative Colitis and Regional Ileitis

This records study of approximately 600 World War II Army cases of ulcerative colitis was initiated during fiscal year 1959 and, it is hoped, can be finished sometime during fiscal year 1960. Although it was originally planned to study a group of cases diagnosed as regional ileitis, small numbers and inadequate records made it necessary to drop this group. However, preliminary exploration of related diagnostic rubrics indicated a need for further work with two groups: colitis and proctitis. Because both groups are large, neither could be studied exhaustively. However, representative samples have been selected for a detailed records review.

Other Extra-VA Contracts

When it is deemed more advantageous or more economical to obtain information or services outside the agency, contracts are negotiated for this purpose. Listed below are the contracts active through 1960 supported by the Veterans' Administration Research Service:

1. National Academy of Sciences

Followup agency.

2. National Academy of Sciences (for Armed Forces Institute of Pathology (AFIP))

A contract is continuing in force for the development of an atlas of tumor pathology, 40 fascicles of which have been proposed and approximately half of which have been published.

3. National Academy of Sciences (for AFIP)

The above contract, and an additional one which continues in force for mutual advantage based on an interchange of professional services in the best interests of the Government, aid the cost of operations of the Department of Pathology of the AFIP and the American Registry of Pathology, i.e., two of the four major departments of the AFIP. It should be noted the American Registry of Pathology is a cooperative enterprise between military and civilian medicine through the auspices of the National Research Council-National Academy of Sciences with but one function of the registry being preparation of microslide study sets for loan to both military and civilian physicians on request. Thirty to forty percent of the material from these loan sets is derived from VA contributions, as is the American Society for Clinical Pathologists (ASCP) annual seminar slide material produced by the AFIP. The specific contract, in addition to general support, is held for "Diagnosis of Neoplasia—Research in Oncology." This project is also supported by the National Cancer Institute and the American Cancer Society as well as the Anna Fuller Fund and Jane Coffin Childs Memorial Fund.

4. Smithsonian Institution (for Bio-Sciences Information Exchange)

Through the Smithsonian Institution a contract aiding in support of the Bio-Sciences Information Exchange continues in force and has been increased slightly for fiscal year 1960. Increasing demands on the agency from many Government research areas and from both the Veterans' Administration Central Office and hospitals is tangible evidence of the cooperation among Government research and granting agencies.

5. Bureau of Standards

A contract is held with the Bureau of Standards for testing of dental prosthetic materials and continued standardization of these products and any which develop in continuing research in this field.

6. Department of Agriculture—Forest Products Laboratory

At the Forest Products Laboratory in Madison, Wis., a contract provides for chemical studies of materials required by the Veterans' Administration Cooperative Study on Sarcoidosis.

7. Jacksonville Hospital's Educational Program, Inc.

At Jacksonville, Fla., a contract has been in force for a clinical and epidemiologic study of sarcoidosis to further these aspects of the Cooperative Study on Sarcoidosis.

8. The University of Colorado

The medium of ultrasound has increasing application in various aspects of medical research and practice, with considerable promise in ultrasonic visualization of soft tissue. This is a highly specialized field for personnel and development of instrumentation, with unique facilities at the University of Colorado. A contract continues in force to further this.

9. Columbia University

Studies on the creation of experimental lesions of the central nervous system requiring highly specialized equipment continue at Columbia Presbyterian Medical Center. This contract has been kept in force.

10. The Johns Hopkins University

Specialized studies on precursors of hypertension and coronary artery disease continue, employing ballistocardiography with an instrument originally provided by the Veterans' Administration. This contract has been maintained to provide these specialized studies for selected patients from the Baltimore and Fort Howard, Md., VA hospitals.

11. The Johns Hopkins University

Certain stable isotopes are employed in studies on enzymes and protein functions in various chronic diseases, a mass spectrometer being essential in this program. The VA originally provided most of the equipment in order to insure availability of these specialized studies for selected patients from the Baltimore and Fort Howard VA hospitals. This contract continues.

12. The Johns Hopkins Hospital

A large-scale study on air circulation in hospitals and maintenance of air hygiene has been carried out jointly by the personnel from Johns Hopkins Hospital, the National Bureau of Standards, and the Veterans' Administration hospital, Baltimore, Md. This effort and contract have continued through 1960.

COOPERATIVE STUDIES

The enormous research potential which exists in 170 VA hospitals, with an authorized capacity of 123,466 beds, caring for an annual patient load of some half million persons, continues to be tapped through the mechanism of cooperative studies. In addition, 17 domiciliary homes containing an average of 17,000 members, and 65 medical regional office clinics offer favorable areas for cooperative research. The VA is aware that only in its unique system is such potential to be found and exploitation of this potential is an obligation as well as an opportunity.

Cooperative studies are those in which investigators from two or more field stations voluntarily agree to pool their data which are collected in accordance with an adequately designed protocol which facilitates statistical analysis. Approval of the Chief Medical Director is required for the initiation of a cooperative study.

During the past year some encouragement has been given to a similar type effort wherein representatives from several hospitals might collaborate on a project without using funds charged to cooperative studies or requiring the approval of the Chief Medical Director. Henceforth, these will be designated "collaborative studies," the same term employed for a study undertaken by a VA hospital with the medical university with which it is affiliated.

During the past year it also has been found necessary to initiate what is called a "VA study group." For example, coincident with the recent upsurge of interest in chronic bronchitis, several VA personnel were afforded the opportunity to meet several times during the year to exchange experiences and plans. The initiation of a study group requires approval by the Chief Medical Director. It may or may not be the forerunner of a cooperative study.

A. Medical Cooperative Studies

(1) Antihypertensive Agents

A report of the therapeutic results obtained during the first years of the program has been accepted for publication by the AMA Archives of Internal Medicine. The results indicate that reserpine is relatively ineffective but that reserpine and hydralazine in combination produce a significant and usually well tolerated reduction of blood pressure in mild and moderate hypertension. Ganglion blocking agents provided good control of the blood pressure in severe hypertension. Only insignificant differences were found among the three blocking drugs tested.

The study has been extended to test the efficacy of other agents, particularly chlorothiazide, under the similar well controlled conditions that this study has observed in the past. In addition, the long-term effectiveness of blood pressure control on the prevention of organic damage in the heart, brain, and kidneys is being assessed.

The VA hospitals and the principal investigators participating in this study are:

Birmingham, Ala.: E. E. Eddleman, Jr., M.D.
Brooklyn, N.Y.: Rudolph E. Fremont, M.D.
Chicago, Ill. (West Side): Clifford G. Pilz, M.D.
Iowa City, Iowa: Mark L. Armstrong, M.D.
Oklahoma City, Okla.: Loyal L. Conrad, M.D.
Richmond, Va.: David Richardson, M.D.
San Juan, P.R.: Eli A. Ramirez, M.D.
Seattle, Wash.: John L. Bakke, M.D.
Washington, D.C.: Edward Freis, M.D. (chairman).
West Haven, Conn.: Massimo Calabresi, M.D.
West Roxbury, Mass.: David Littman, M.D.

Consultants:

J. Earle Estes, M.D., Chief, Hypertension Department, Mayo Clinic, Rochester, Minn.
Walter M. Kirkendall, M.D., University Hospital, Department of Internal Medicine, State University of Iowa, Iowa City, Iowa.
Eugene Stead, M.D., chairman, Department of Medicine, Duke University School of Medicine.

VA Central Office representatives:

Edward Dunner, M.D., coordinator.
John H. Williams, Jr., biostatistician.

(2) Atherosclerosis

The Cooperative Study of Atherosclerosis started, on January 10, 1957, to observe the effects of anticoagulants given over a long period to patients with myocardial infarctions or cerebrovascular accidents. The role of diet in atherosclerosis has been under investigation by members of this group for a shorter time. Patients were first admitted by this section in July 1958.

The cardiologists are 12 in number, the neurologists 8, and there are 4 physicians particularly interested in the possible importance of diet as an underlying factor in atherosclerosis. Before the end of 1959 the cardiologists had screened 1,224 patients and admitted 313 to the study, and the neurologists had screened 1,264 patients with cerebrovascular accidents and admitted 229.

The diet section has screened approximately 350 patients since the study's inception, of whom 26 have been accepted by one of the two collaborating investigators who are studying the effect of low-fat diet on patients with myocardial infarctions. In the pilot study at VAC, Los Angeles, 1,200 members of the domiciliary unit have been screened. The effect of low-fat diet and fat-formulas will be followed in 160 of these men.

The study of the effectiveness of measures other than diet in reducing the levels of circulating cholesterol continues. This is a double-blind study being conducted at the VAH, Iowa City, Iowa, to which 31 patients with cerebrovascular accidents and 25 with myocardial infarcts have been admitted.

The principal investigators participating in this study and their hospitals are:

Cardiology Section:
Boston, Mass.: Daniel Holzman, M.D.
Bronx, N.Y.: Julius Wolf, M.D.
Brooklyn, N.Y.: Rudolph E. Fremont, M.D.
Chicago, Ill. (Research): Craig W. Borden, M.D.; George Kroll, M.D.
Denver, Colo.: John Ray Pryor, M.D.
Little Rock, Ark.: Harold R. Hipp, M.D.
Los Angeles, Calif.: Max Binder, M.D.
Seattle, Wash.: Harold Dodge, M.D.

Neurology Section:
Boston, Mass.: Karel Toll, M.D.
Bronx, N.Y.: Carl B. Booth, M.D.
Brooklyn, N.Y.: Donald S. Slade, M.D.; Murray E., Margulies, M.D.
Denver, Colo.: Warren V. Huber, M.D.
Durham, N.C.: Albert Heyman, M.D.
Los Angeles, Calif.: Robert N. Baker, M.D.
Oakland, Calif.: James K. Smith, M.D.

Diet Section:
Ann Arbor, Mich.: Henry K. Schoch, M.D.
Durham, N.C.: E. Harvey Estes, M.D.
Iowa, City, Iowa: Mark Armstrong, M.D.
Los Angeles, Calif.: M. Lee Pearce, M.D.; Seymour Dayton, M.D.

Consultants:
Richard V. Ebert, M.D., professor and head, Department of Medicine, University of Arkansas (chairman, cardiac section), Fayetteville, Ark.
James V. Warren, M.D., professor and head, Department of Medicine, University of Texas (chairman, diet section), Austin, Tex.
Benjamin Alexander, M.D., associate professor of medicine, Harvard University, Cambridge, Mass.
H. Houston Merritt, M.D., director, neurology service, Neurological Institute, New York, N.Y.
Benedict Nagler, M.D., superintendent, Lynchburg Hospital, Colony, Va.
M. Dean Nefzger, Ph. D., statistician, National Academy of Sciences, Washington, D.C.
A. L. Sahs, M.D., professor and head, Department of Neurology, State University of Iowa, Iowa City, Iowa.
Frederick J. Stare, M.D., professor and head, Department of Nutrition, Harvard University, Cambridge, Mass.
William T. Foley, M.D., assistant clinical professor of medicine, Cornell University, New York, N.Y.
Ellen McDevitt, M.D., New York Hospital, New York, N.Y.
Irving S. Wright, M.D., clinical professor of medicine, Cornell University, New York, N.Y.
John R. Whittier, M.D., associate neuropsychiatrist, North Shore Neuropsychiatry Center, director, Creedmore Institute of Psychobiologic Studies, New York, N.Y.

Chiefs of the Reference Laboratories:

Coagulation technics at VA Hospital, Bronx, N.Y.: Max Bovarnick, M.D.

Cholesterols and lipids at VA Center, Durham, N.C.: E. Harvey Estes, M.D.

Cardiac pathology at Armed Forces Institute of Pathology, Washington, D.C.: W. C. Manion, M.D.

Cerebral pathology at VA Hospital, Boston, Mass.: Jose Segarra, M.D.

VA Central Office representatives:

Thomas L. Auth, M.D., chief, neurology division.

Charles C. Chapple, M.D., chief, research-in-aging division.

Julian I. Lewis, biostatistician, research statistics division.

(3) Diabetes Mellitus

On April 1, 1959, after the formulation of a protocol by representatives of eight Veterans' Administration hospitals and the National Institutes of Health, a long-range appraisal of sulfonylureas in ketoacidosis-resistant diabetics was begun. This study employs a double-blind technique utilizing the only two commercially available hypoglycemic sulfonylureas, tolbutamide and chlorpropamide, and a placebo. The protocol is so designed that new drugs may be similarly studied if they become of therapeutic importance.

Several independent investigations of various problems in diabetes mellitus already have resulted from the overall cooperative study. These include studies on insulin binding; the action of glucagon, including a glucagon immunoassay; an investigation of serum and tissue levels of glucosamine and galactosamine; and of pituitary-adrenal function in certain diabetics. Clinical trials have evaluated an experimental drug, metahexamide, and the effectiveness of combination oral hypoglycemic therapy utilizing phenylethylbiguanide plus tolbutamide in certain treatment-resistant diabetics.

Additional protocols designed to pursue certain problems of diabetes mellitus best approached by a cooperative investigatory technique are in the planning stage.

The VA hospitals and the principal investigators participating in the study are:

Birmingham, Ala.: Buris A. Boshell, M.D.

Bronx, N.Y.: Ernest Schwartz, M.D.

Brooklyn, N.Y.: Hyman M. Katz, M.D.

Buffalo, N.Y.: Grosvenor W. Bissell, M.D. (chairman).

Dallas, Tex.: Roger H. Unger, M.D.

Martinsburg, W. Va.: Thomas McGavach, M.D.

Topeka, Kans.: Russell Wilder, M.D.

Washington, D.C.: John A. Owen, Jr., M.D.

Wilkes-Barre, Pa.: Joyce K. Hurwitz, M.D.

Those organizations, other than the Veterans' Administration, cooperating in this study are:

James B. Field, M.D., Section of Clinical Endocrinology, National Institute of Arthritis and Metabolic Diseases, Public Health Service, Bethesda, Md.

Glenn E. Mortimore, M.D., senior investigator, National Institute of Arthritis and Metabolic Diseases, National Institutes of Health, Bethesda, Md.

Dewitt Stetten, M.D., Ph. D., associate director in charge of research, National Institute of Arthritis and Metabolic Diseases, National Institutes of Health, Bethesda, Md.

Consultants:

Thaddeus S. Danowski, M.D., professor of research medicine, University of Pittsburgh School of Medicine, Pittsburgh, Pa.

Max Miller, M.D., associate professor of medicine, Department of Medicine, Western Reserve University, Cleveland, Ohio.

Paul K. Smith, Ph. D., professor of pharmacology, George Washington University, Washington, D.C.

VA Central Office representatives:

Edward Dunner, M.D., coordinator.

Julian I. Lewis, biostatistician.

(4) Endocrine Disorders

Completed.—Five steroid assay laboratories have been established as the initial working base of this cooperative study. They have completed the work needed to adopt a standard chemical procedure for the assay of plasma 17-hydroxycorticosteroids, and have exchanged samples to establish stability during mailing without refrigeration, and demonstrated that values obtained in different laboratories are comparable and may be combined. The response of the plasma 17-hydroxycorticosteroid level after ACTH stimulation has been measured in a large number of cases to define the normal limits of the response 4 hours after 80 units of ACTH gel administered intramuscularly. A study of the reproducibility of the test response in the same individual retested at 7-day intervals and preliminary studies of the diurnal variation in plasma 17–OH–CS levels and of the SU–4885 test have been completed. Numerous tests have been performed in patients with endocrine disease, stress, or previous steroid therapy. The data are being compiled.

A questionnaire check sheet designed to collect clinical and laboratory data from patients with adrenal insufficiency has been prepared.

In progress.—The study is still in a preliminary phase. Much thought is being given to the goals of the study; how can participation in such a study best meet the research interests of the individual VA investigators and attract the cooperation necessary for accumulating data on a widespread basis and at the same time provide a needed service which will directly assist in patient-care throughout VA? The plasma steroid assay before and after ACTH stimulation is being used to search for new cases of pituitary and adrenal disease. The clinical questionnaire check sheet is being used to collect data on the natural history of adrenal insufficiency in a large number of cases. The studies of the diurnal variation in steroid level and the pituitary-adrenal response to SU–4885 blockade of cortisol synthesis continues. A pilot study is in progress to evaluate the best means of collecting autopsy pituitary glands for central processing in order to obtain maximum yields of all the known pituitary hormones which can be purified, assayed, and stored in a central pituitary protein bank for the clinical and experimental use of present and future VA investigators.

Future plans.—It is planned to relate the incidence of adrenal hypofunction or hyperfunction to age, carcinomatosis, surgery, and other

stress, and following steroid therapy or pituitary irradiation. This search for previously undiagnosed cases will require the cooperation of many VA physicians.

Unlike most cooperative studies which involve many patients with a common disorder collected in a few cooperating medical centers, the present project will seek to obtain information on apparently uncommon disorders which are seen or suspected throughout the VA medical system. If this study proves successful, other rare disorders, for example, thyroiditis and thyroid cancer, may be studied in a similar way. It is anticipated that the results will contribute to patient care, and clinical and basic scientific knowledge.

The VA hospitals and principal investigators participating in this study are:

Birmingham, Ala.: James A. Pittman, Jr., M.D.
Buffalo, .NY.: Grosvenor Bissell, M.D.
Chicago, Ill. (West Side): Gerald Williams, M.D.
Denver, Colo.: Harold Elrick, M.D.
Los Angeles, Calif.: S. H. Bassett, M.D.; Thomas A. Dowling, M.D.; Charles R. Kleeman, M.D.
Salt Lake City, Utah: Charles D. West, M.D.
Seattle, Wash.: John L. Bakke, M.D. (chairman).

Consultants:

Joseph W. Jailer, M.D., associate professor of medicine, Department of Medicine, Columbia University, College of Physicians and Surgeons, Presbyterian Hospital, New York, N.Y.
Edward Rose, M.D., professor of clinical medicine, Medical School, and professor of internal medicine, Graduate School University of Pennsylvania, Philadelphia, Pa.

VA Central Office representatives:

Edward Dunner, M.D., chief, cooperative studies division.
Frances M. Wright, biostatistician.

(5) Functional (Nonorganic) Deafness

A preliminary phase of the study of nonorganic deafness, which was begun in October 1958, has been completed at the VA regional office, New York. The results of this study indicate that patients who exhibit audiological inconsistencies also show neurological and psychological manifestations which deviate from the behavior of persons with purely organic auditory involvement.

Forty-eight hard-of-hearing patients, 22 of whom possessed nonorganic hearing loss, were studied intensively from the viewpoints of audiology, neurology, psychiatry and psychology, in addition to receiving an extensive medical examination.

The results of this pilot study suggest that many patients with nonorganic auditory impairment can be differentiated from those with organic loss on the basis of (1) an unusually large two-point tactile discrimination threshold, (2) partial anesthesias, particularly in the area of the pinna, and (3) elevated Minnesota Multiphasic Personality Inventory (MMPI) scores indicative of tendencies toward hypochrondriasis, depression, hysterical, and compulsive behavior. These results are by no means conclusive, but provide indications for the major study to follow.

The results of this preliminary investigation cast considerable doubt as to whether the nonorganic, acoustically impaired population is homogeneous in its behavioral and systemic aspects. For this reason, the available data are currently being analyzed statistically to find the divergent trends which will be most fruitful for future investigation at the VA regional office, New York, and which will serve as a guide for the experimental design of the major cooperative study, to include other VA stations.

The personnel participating in this study at VA regional office, New York, N.Y. are:

Matthew Levine, M.D. (chairman).
Martin Cohen, M.A. (secretary).
Sidney M. Cohen, M.D.
Morris Heller, M.D.
Richard Maisel, Ph.D. (statistician).
Howard B. Ruhm, Ph.D.
Ranald Wolfe, Ph.D.

VA Central Office Planning Group:

Bernard M. Anderman, Ed.D. (chairman).
Thomas A. Auth, M.D.
Edward Dunner, M.D.
H. Max Houtchens, Ph.D.
Cecil P. Peck, Ph.D.
George J. Weinstein, M.D.

Consultants:

Norton Canfield, M.D., associate professor otolaryngology, Yale University School of Medicine, New Haven, Conn.
Raymond Carhart, Ph.D., professor of audiology, Northwestern University, Chicago, Ill.
Peter H. Knapp, M.D., associate research professor of psychiatry, Boston University School of Medicine, Boston, Mass.

(6) Gastroenterology

A group has been formed to design and conduct cooperative studies in the field of gastroenterology. The first meeting was held on November 5, 1959, in Chicago, at which time the topic, "Treatment of Gastric Ulcer," was selected for the first cooperative study. A committee is now engaged in writing a protocol for the gastric ulcer study.

The VA hospitals and principal investigators participating in the gastroenterology group are:

Atlanta, Ga.: J. Wenger, M.D.
Cleveland, Ohio: H. P. Roth, M.D.
Coral Gables, Fla.: M. Kalser, M.D.
Hines, Ill.: R. Fruin, M.D.; A. Littman, M.D.; L. M. Bernstein, M.D.
Long Beach, Calif.: S. J. Stempien, M.D.
Los Angeles, Calif.: M. I. Grossman, M.D. (chairman).
Louisville, Ky.: L. Y. Peskoe, M.D.
Memphis, Tenn.: M. Gompertz, M.D.
Nashville, Tenn.: W. L. Alsobrook, M.D.
Oklahoma City, Okla.: Oren Skouge, M.D.
Togus, Maine: F. A. Spellman, M.D.

VA Central Office representatives:
Edward Dunner, M.D., chief, cooperative studies division.
John M. Rumball, M.D., director, medical service.

(7) Chemotherapy in Psychiatry

A report on projects 1 and 2 which were begun in 1957, has been accepted for publication in the AMA Archives of General Psychiatry. Two tranquilizers, chlorpromazine and promazine were found to be significantly better than phenobarbital and placebo in the reduction of the total number and severity of psychiatric symptoms.

Preliminary results of project 3 (initiated May 1958, data collection ended January 1959) were presented at the Fourth Annual Research Conference on Chemotherapy in Psychiatry, May 20–22, 1959.

This project studied the effectiveness of five phenothiazines: chlorpromazine, triflupromazine, mepazine, prochlorperazine, perphenazine, against a control agent, phenobarbital. Six hundred and forty newly admitted schizophrenic males in 35 VA hospitals were randomly assigned to one of the five phenothiazines and phenobarbital in this double-blind study. Medication was prescribed at a standard dosage schedule for the first 4 weeks and a flexible schedule for the next 8 weeks, during which the physician adjusted dosage, within limits, to obtain an optimal therapeutic response for each patient.

In general, the results indicated that all five phenothiazines were therapeutically more effective than phenobarbital. Mepazine was less effective than the other four drugs at the dosage employed. No significant differences were found among chlorpromazine, triflupromazine, prochlorperazine, and perphenazine. Side reactions were minimal. The complete findings of this project have been prepared for publication.

Project 4 was initiated in September 1959 in 27 VA hospitals. This project evaluates some of the newer stimulant drugs used in combination with chlorpromazine. Schizophrenic patients who are now receiving maintenance doses of chlorpromazine will be given one of the following medications: imipramine, isocarboxazid, dextromphetamine, trifluoperazine, and an inert agent. The study will continue over a period of 16 weeks, including 1 month on a standard dosage schedule and 3 months on a flexible dosage schedule. Five hundred and fifty patients are being studied and the effects of selected characteristics of the patients and of the hospital setting will be evaluated to determine any relationships to clinical change, either alone or together, with the effects of drug therapy.

The VA hospitals and personnel participating in Project 4 are:

American Lake, Wash.: Carl P. Jensen, M.D.
Battle Creek, Mich.: Louis Herman, M.D.
Biloxi, Miss.: A. J. Roberts, M.D.
Brockton, Mass.: Lewis Sherman, Ph. D.
Coatesville, Pa.: Joseph Grasberger, M.D.
Danville, Ill.: Gerald E. Schneider, M.D.
Downey, Ill.: M. Klotz, M.D.
Jefferson Barracks, Mo.: Leonard Rosalsky, M.D.
Lebanon, Pa.: John L. Allen, M.D.
Lexington, Ky.: Erwin W. Straus, M.D.
Los Angeles, Calif.: Harry Grayson, Ph. D.

Lyons, N.J.: Eli Alson, Ph. D.
Montrose, N.Y.: Louis Weinstein, M.D.; Robert Hart, Ph. D.
Murphreesboro, Tenn.: Rafael Hernandez, M.D.
Northampton, Mass.: B. G. Morrison, M.D.
North Little Rock, Ark.: C. C. Ault, M.D.
Northport, N.Y.: I. J. Blumenthal, M.D.
Palo Alto, Calif.: Gertrude V. Erickson, M.D.
Perry Point, Md.: Robert F. Duffey, Ph. D.
Roseburg, Oreg.: Glenn E. Wright, Ph. D.
Salisbury, N.C.: W. T. Sharp, M.D.
Salt Lake City, Utah: J. L. Bennett, M.D.
St. Cloud, Minn.: Norris D. Vestre, Ph. D.
Togus, Maine: Charles Rothstein, Ph. D.
Topeka, Kans.: John Chotlos, Ph. D.
Tuskegee, Ala.: Gordon C. Looney, M.D.
Waco, Tex.: John Shawver, M.D.

Project 5 will study the response of male and female adult neurotic and psychotic reactive, cyclical, and involutional depressive and scizo-affective patients to the new antidepressive drugs: imipramine, isocarboxazid, dextroamphetamine sulphate with amobarbital, and a control agent. This project was initiated during October 1959 through January 1960 and will continue for at least a 6-month period. Thirty-seven VA hospitals are contributing 444 patients, with approximately one-third being female.

The VA hospitals and personnel participating in project 5 are:

American Lake, Wash.: Carl P. Jensen, M.D.
Ann Arbor, Mich.: Rosalie Ging, M.D.
Augusta, Ga.: Carl L. Smith, M.D.
Battle Creek, Mich.: Louis Herman, M.D.
Bay Pines, Fla.: Paul C. Clark, M.D.
Biloxi, Miss.: A. J. Roberts, M.D.
Brockton, Mass.: Fred M. Meyer, M.D.
Bronx, N.Y.: Manfred Braun, M.D.
Buffalo, N.Y.: Robert H. Fortier, Ph. D.
Coatesville, Pa.: M. P. Rosenblum, M.D.
Columbia, S.C.: Roy G. Smarr, M.D.
Danville, Ill.: Gerald E. Schneider, M.D.
Dayton, Ohio: Hans Neuer, M.D.
Denver, Colo.: George Katz, M.D.
Durham, N.C.: Paul G. Daston, Ph. D.
East Orange, N.J.: Julius Sobin, M.D.
Fort Meade, S. Dak.: Harland T. Hermann, M.D.
Houston, Tex.: Isham Kimball, Jr., M.D.
Jackson, Miss.: Veronica Pennington, M.D.
Lexington, Ky.: Erwin W. Straus, M.D.
Long Beach, Calif.: Myron Feld, M.D.
Los Angeles, Calif.: Harry M. Grayson, Ph. D.
Lyons, N.J.: Leslie Freeman, M.D.
Minneapolis, Minn.: Werner Simon, M.D.
Montrose, N.Y.: Frank L. Raso, M.D.
New York, N.Y.: Moe A. Goldberg, M.D.
Northhampton, Mass.: Benjamin G. Morrison, M.D.
North Little Rock, Ark.: C. C. Ault, M.D.

Northport, N.Y.: Richard G. Singer, M.D.
Perry Point, Md.: Robert Duffey, Ph. D.
Salisbury, N.C.: R. B. Rodman, M.D.
Salt Lake City, Utah: J. L. Bennett, M.D.
Seattle, Wash.: Merlin H. Johnson, M.D.
Sepulveda, Calif.: Theodore Gagliano, M.D.; F. Harold Giedt, Ph. D.
Togus, Maine: Charles Rothstein, Ph. D.
Topeka, Kans.: John Chotlos, Ph. D.
Tuskegee, Ala.: Gordon C. Looney, M.D.

Design of studies and statistical analysis of data are centered at the research laboratory, VAH, Perry Point, Md.

Julian J. Lasky, Ph. D., chief.
C. Jones Klett, Ph. D., assistant chief.
Donald R. Gorham, Ph. D., chief, experimental studies section.
John Overall, Ph. D., chief, criterion development section.

Executive Committee:

VACO, Washington, D.C.: J. F. Casey, M.D. (chairman); Clyde J. Lindley, M.A. (executive secretary).
Coatesville, Pa.: Marcus Rosenblum, M.D.
Houston, Tex.: Alex Pokorny, M.D.
Palo Alto, Calif.: Leo E. Hollister, M.D.
Perry Point, Md.: Eugene M. Caffey, Jr., M.D.; Julian J. Lasky, Ph. D.
Pittsburgh, Pa.: Amedeo S. Marrazzi, M.D.
Salt Lake City, Utah: J. L. Bennett, M.D.
VBO, Washington, D.C.: Maurice Lorr, Ph. D.

Consultants:

Thomas G. Andrews, Ph. D., chairman, Department of Psychology, University of Maryland, College Park, Md.
George A. Kelly, Ph. D., Department of Psychology, Ohio State University, Columbus, Ohio.
Donald B. Lindsley, Ph. D., Department of Psychology, University of California, Los Angeles, Calif.
Jules H. Masserman, M.D., professor of neurology and psychiatry, Northwestern University School of Medicine, Chicago, Ill.
James G. Miller, M.D., director, Mental Health Research Institute, University of Michigan, Ann Arbor, Mich.
Howard P. Rome, M.D., Section of Psychiatry, Mayo Clinic, Rochester, Minn.
Mathew Ross, M.D., medical director, American Psychiatric Association, Washington, D.C.

(8) Adjunct Chemotherapy With Psychiatric Outpatients

Described below are four major projects which the research laboratory is currently coordinating and several proposed studies being planned for initiation in 1960. In addition there are some 16 other lesser projects in various stages of completion which do not warrant detailed description.

(a) The Cooperative Study of Adjunct Chemotherapy with Psychiatric Outpatients, begun in November 1958, completed the collection of data in December 1959. The goal of the project was to com-

pare the effects of psychotherapy alone, with the effects of psychotherapy with either of two tranquilizers, and with one of two control substances on measured anxiety. In addition the study aimed to identify personality and social background characteristics of patients prognostic of favorable response to the tranquilizing drugs. Data have now been collected on 238 patients who remained in the study during the 8-week medication period. It is expected that the statistical analysis will be completed in the spring of 1960 and the results reported at the Annual Research Conference on Chemotherapy in Psychiatry.

(b) The first phase of the Cooperative Study To Predict Response to Individual Psychotherapy has now been completed. The project initially included some eight mental hygiene clinics. At the close of the study the principal contributors were Albany, Boston, Buffalo, Chicago, Denver, and Hartford. The study plan called for random assignment of patients to individual psychotherapy scheduled once biweekly, once a week, and twice a week. Patients introduced into the study were assessed before treatment as well as 4, 8, and 12 months thereafter. Analyses of data obtained from patients, therapists, and social services showed that patients who remained in treatment as long as a year improved significantly and progressively. Further, patients remaining for a year improved significantly more than those who left earlier but stayed in treatment for at least 4 months.

One major hypotheses tested was that patient improvement would be proportional to the number of treatments received. This hypotheses was not supported by any of the data obtained at the 4- and 8-month reevaluations, and only in a minor way by the 12-month data.

At present two reports are being prepared for publication, and two allied studies relative to therapist goals and suitability of treatment frequency have been completed. In addition, analyses aimed at identifying predictors of response to 8- and 12-month treatment have been initiated.

(c) A large number of tape recordings of therapeutic interviews were collected in connection with the Study To Predict Response to Individual Psychotherapy. At present in five clinics a project aimed at the development of an objective checklist of therapist behaviors useful for appraising therapist competence is underway. The tape recordings have been used to rate therapists at high, average, and lower levels of ability to do psychotherapy. An effort is now being made to determine whether judgment competency differs by disciplines. If expert raters in the different professions agree in evaluating competence, then the way will be clear to further validate a tentative checklist for discriminating between different degrees of therapeutic competence.

(d) Development of an Inpatient Multidimensional Scale for Psychiatric Patients (IMPS): In the spring of 1959 a collaborative study aimed at the revision of the Lorr's Multidimensional Scale for Rating Psychiatric Patients (MSRPP), a much used rating schedule for describing and evaluating change in psychotic patients, was initiated. The NP Research Laboratory and the Central NP Research Unit collected data on 300 psychotic patients interviewed in VA hospitals. Each patient was rated twice on a rating schedule devised

to measure nine different areas of mental illness. The schedule has been factored and shown to measure substantially the same areas as the MSRPP. Reliability studies are now underway at the Central NP Research Unit. A manual and a final revision of the IMPS will be prepared in the early part of 1960.

(e) Plans have almost been completed for the initiation of a 30-month followup study of all patients who remained at least 4 months in the previously described Cooperative Study To Predict Response to Individual Psychotherapy. The project will be conducted in Boston, Chicago, and Denver. The plan is to assess patients by means of psychological tests and a semistructured interview. The entire group will be partitioned into three subsamples on the basis of the actual number of psychotherapeutic interviews. Comparisons will be based on scores adjusted for initial status on criterion variables and background variables.

The goals of the project are to ascertain whether: (1) Treatment is terminated; (2) new effects appear after termination of treatment; (3) the number of treatments received has delayed effects on patients.

(f) A sizable proportion of all patients seen in intensive psychotherapy (biweekly or more often) has been in treatment for periods from 2 to 12 years. A study is needed to ascertain (1) in what respects long-term patients differ from short-term patients; (2) how psychotherapy and the therapeutic relationship differ for brief and long-term patients; (3) how therapists' and patients' goals differ for long- and short-term patients.

The plan is to invite a group of representative clinics to contribute small numbers of patients who have been seen for 2, 4, 6, 8, 10, and 12 years. A series of measures will be devised to assess patients and therapists. A small number of tape recordings will also be collected to assess characteristics of the patient-therapist relationship. A tentative goal is to initiate the project after a pilot study in September of 1960.

The collaborating VA mental hygiene clinics and their principal investigators are:

Atlanta, Ga.: Louis A. Cibelli, M.D.
Baltimore, Md.: Shabse H. Kurland, Ph. D.
Boston, Mass.: Richard W. Boyd, Ph. D.
Buffalo, N.Y.: Joseph W. House, Ph. D.
Chicago, Ill.: Lester W. Savage, M.D.
Cleveland, Ohio: Morton Slobin, Ph. D.
Denver, Colo.: Harl H. Young, Jr., Ph. D.
Des Moines, Iowa: Lynn K. Roberts, Ph. D.
Hartford, Conn.: Philip W. Morse, Ph. D.
Los Angeles, Calif.: Joseph Heller, M.D.
Lowell, Mass.: Ralph G. Semon, Ph. D.
New Orleans, La.: David T. Johnson, Ph. D.
New York, N.Y.: Bernard Kasinoff, M.D.
Philadelphia, Pa.: Werner K. R. Welz, M.D.
Phoenix, Ariz.: Isadora A. Sklar, M.D.
Pittsburgh, Pa.: Thomas P. Mellett, Ph. D.
Roanoke, Va.: George T. Lodge, Ph. D.
St. Louis, Mo.: Arnold H. Hilden, Ph. D.
St. Paul, Minn.: Donald R. Stieper, Ph. D.

St. Petersburg, Fla.: Nelson C. Ribble, Ph. D.
San Francisco, Calif.: Raymond A. Brown, M.D.
Syracuse, N.Y.: John D. Breish, Ph. D.
Washington, D.C.: John L. Endacott, Ph. D.

VA Central Office and Veterans Benefits Office representatives:
George J. Weinstein, M.D., coordinator, VA Central Office, Washington, D.C.
Maurice Lorr, Ph. D. (chairman), Veterans Benefits Office, Washington, D.C.

Executive committee and consultants are the same as listed for the Cooperative Study of Chemotherapy in Psychiatry.

(9) Multiple Sclerosis

(a) Isoniazid in the Treatment of Multiple Sclerosis: The portion of this study which deals with the clinical followup of the isoniazid-treated multiple sclerosis patients is now in the final year of effort. It is expected that the 5-year followup clinical and electroencephalographic examinations will be completed on all enrolled and available patients by the end of 1960. Compilation and analysis of the collected data will continue during and subsequent to this final active clinical year of the study. This etude should elicit the long-term benefits, if any, in the multiple sclerosis patients treated with INH when compared with the control group.

The VA hospitals and principal investigators participating in this study are:

Boston, Mass.: F. A. Quadfasel, M.D.
Bronx, N.Y.: Carl B. Booth, M.D.
Denver, Colo.: Warren V. Huber, M.D.
Durham, N.C.: Albert Heyman, M.D.
Hines, Ill.: Eli L. Tigay, M.D.
Louisville, Ky.: Irving O. Dein, M.D.
Minneapolis, Minn.: Royal C. Gray, M.D.
Oakland, Calif.: James K. Smith, M.D.
Pittsburgh, Pa.: Eugene L. Youngue, M.D.
Richmond, Va.: Weir M. Tucker, M.D.
Wood, Wis.: Earl W. Niles, M.D.

Consultant:
Benedict Nagler, M.D., superintendent, Lynchburg Training School and Hospital, Colony, Va.

VA Central Office representative:
Thomas L. Auth, M.D., coordinator.

(b) Pilot Study on Microbiology in Multiple Sclerosis. Three VA hospitals have joined research efforts in this field. Theirs is an attempt to determine if the cerebrospinal fluid of multiple sclerosis patients consistently contains any unusual microbiological organism such as has been reported recently. Their attention is especially directed toward the spiral organisms.

The VA hospitals and principal investigators participating in this study are:

Coatesville, Pa.: John F. Kurtzke, M.D.
Philadelphia, Pa.: Ralph M. Myerson, M.D.
Pittsburgh, Pa. (Leech Farm Road): Eugene L. Youngue, M.D.

Consultant:

Benedict Nagler, M.D., superintendent, Lynchburg Training School and Hospital, Colony, Va.

VA Central Office representative:

Thomas L. Auth, M.D., coordinator.

(10) Amyotrophic Lateral Sclerosis

The Study of Amyotrophic Lateral Sclerosis in the VA, which is being carried out in conjunction with the National Institutes of Health (National Institute of Neurological Diseases and Blindness), continues with 57 VA installations cooperating. They are responsible for the clinical verification of the diagnosis as well as the securing of the specimens of blood and sputum for typing at the National Institutes of Health. The VA installations continue to furnish specimens to the National Institutes of Health and to date have supplied in the neighborhood of 80–90 with a like number on the controls. This study is expected to run at least another year.

VA Central Office representative:

Thomas L. Auth, M.D., coordinator.

(11) Psychological Research

Major findings of the first three projects in the VA cooperative psychological research program, begun in 1957, were presented at the Second Annual Psychological Research Conference, September 1–2, 1959. A final report for publication as a monograph has been drafted.

One of the primary outcomes from these initial studies was the development of quantitative index measures of hospital and postdischarge community adjustment and of response to treatment; such indices were not available previously, and thus represent an important methodological tool for current and future research.

The analyses of data for projects 1, 2, and 3, contributed by 20 hospitals for 657 hospitalized and 197 discharged tuberculosis patients, indicated that one of the key constellations of psychological factors significantly associated with favorable adjustment and response to treatment was a low level of anxiety and the ability to tolerate tension or emotional stress without a resulting increase in anxiety.

Based on some of the principal results, four new projects have been developed and data collection will be started in 1960, as follows: (*a*) a study of the relationships between stress and response to treatment in pulmonary tuberculosis; measures of stress will include not only tests of psychological tension and of family and hospital environmental pressures, but also physiological and endocrine tests of autonomic nervous system functioning; this project likewise constitutes a pioneer step toward the collaboration of cooperative study groups in that the endocrine laboratory analyses will be done by the Endocrine Cooperative Study Laboratories; (*b*) an intensive study of relationships between attitudes toward and behavior in a variety of institutional settings; (*c*) a further investigation of the hospital adjustment index and the efficiency of its prediction for nontuberculosis patients; (*d*) the development of quantitative criteria of response to treatment in somatic illnesses other than tuberculosis.

During 1959, data collection was started for a fourth project, the longitudinal followup after discharge of the previously hospitalized

subjects studied in projects 1 and 2. Data for this project have been contributed by 7 hospitals and 1 regional office for 100 discharged patients, or approximately 16 percent of the original sample.

The VA hospitals and regional office personnel participating in Project 4 and in the development of Projects 5–8 are:

Augusta, Ga.: H. Elston Hooper, Ph.D.
Castle Point, N.Y.: Daniel Casner, Ph.D.
Columbia, S.C.: Thomas R. Scott, Ph.D.
Dayton, Ohio: John Davis, Ph.D.
Downey, Ill.: Robert P. Barrell, Ph.D.
Hines, Ill.: Jonathan W. Cummings, Ph.D.
Kerrville, Tex.: Don Johns, Ph.D.
Livermore, Calif.: Marian R. Ballin, Ph.D.
Los Angeles, Calif., RO: Masaru Oshiro, M.S.W.
Minneapolis, Minn.: Joseph H. Dickerson, Ph.D.
Omaha, Nebr.: J. Lewis Yager, Ph.D.
San Fernando, Calif.: John W. McKelligott, Ph.D.
Sepulveda, Calif.: Charles D. McCarthy, Ph.D.
Temple, Tex.: Joseph C. Rickard, Ph.D.
Wadsworth, Kans.: Henry C. Remple, Ph.D.

Coordination of studies and statistical analysis of data are centered at the research unit, VA hospital, Baltimore, Md.:

Claire M. Vernier, Ph.D., chief.
Alexander W. Astin, Ph.D., assistant chief.

VA Central Office representatives:

Edward Dunner, M.D., chief, cooperative studies division.
H. Max Houtchens, Ph.D., chief, clinical psychology division.
Mrs. Virginia Karl, specialist, Social Work Practices and Research.

(12) Chemotherapy of Tuberculosis

The VA-Armed Forces cooperative studies continue their important role in the tuberculosis research program; 58 VA and 4 Armed Forces hospitals have during the past year made significant contributions in the newer methods of diagnosis and treatment of this disease. Among the special fields of interest were the following:

(a) *Study of new drugs.*—Studies on the effectiveness of five new drugs and drug combinations have been completed and published or submitted for publication in leading medical journals. Among these were studies on streptovaricin, pyrazinamide plus isoniazid, cycloserine plus isoniazid, thiocarbanidin and kanamycin. Still in progress are studies of a new drug, thioamide and of kanamycin in lower doses combined with other drugs to improve its effectiveness and reduce undesirable side effects.

(b) *Improvements in standard regimens.*—The effect of metabolic inactivation of isoniazid by certain groups of patients on success of treatment for tuberculosis is still under study. Careful studies of the isoniazid inactivation patterns of more than 400 tuberculosis patients have been made and will be analyzed for presentation at the Annual Conference on Chemotherapy. The ability to compensate for rapid inactivation by raising the daily dose of isoniazid three- to five-fold is also a part of this study. Whether the gain in treatment effectiveness will justify the increased risk of toxic side effects of these higher

doses should be clearly apparent when the complete data from this study are analyzed.

The role of adrenal corticosteroids as an adjunct to our most effective drug combinations in the treatment of tuberculosis is still under study and not yet ready for reporting. The study will be concerned with alterations in the bacteriology and morphology of the tuberculous lesions in surgically resected lung specimens as well as with the usual criteria for treatment success.

(c) *Late followup studies.*—The followup study of more than 200 VA-Armed Forces cooperative study patients who survived tuberculous meningitis because of effective drug treatment has yielded valuable original and encouraging information on the ability of these patients to work and function in society. Before effective drug treatment, tuberculous meningitis was invariably fatal and available studies in infants and children have revealed that even survivors following drug treatment all too often have severe and disabling neurologic and mental residua. The picture in VA-Armed Forces cooperative study survivors seems more encouraging.

Similar followup studies on patients treated for tuberculosis of the bones and joints and of the kidney as well as of those with tuberculosis of the lungs are continuing.

(d) The Cooperative Study Bacteriology Laboratory in Atlanta is in full operation and rendering valuable assistance in some of our newer studies.

(e) *Atypical mycobacteria.*—In order to increase our understanding and improve our treatment of the chronic lung disease caused by unusual tuberculosis-like organisms, a case register is being started to determine what the volume and distribution of patients with this disease in the VA might be. From this register, the followup of these patients will permit the evaluation of their treatment and the development of new and more definitive research approaches to this problem.

The VA and Armed Forces hospitals engaged in these cooperative studies are:

Albany, N.Y.
Albuquerque, N. Mex.
Alexandria, La.
Ann Arbor, Mich.
Augusta Annex, Ga.
Baltimore, Md.
Brecksville, Ohio.
Brockton, Mass.
Bronx, N.Y.
Brooklyn, N.Y.
Buffalo, N.Y.
Butler, Pa.
Castle Point, N.Y.
Coral Gables, Fla.
Dallas, Tex.
Dayton, Ohio.
Dearborn, Mich.
Denver, Colo.
Downey, Ill.
Durham, N.C.
East Orange, N.J.
Excelsior Springs, Mo.
Hines, Ill.
Houston, Tex.
Indianapolis, Ind.
Kansas City, Mo.
Kerrville, Tex.
Livermore, Calif.
Long Beach, Calif.
Louisville, Ky.
Madison, Wis.
Manhattan, N.Y.
Martinsburg, W. Va.
Memphis, Tenn.
Minneapolis, Minn.
Montrose, N.Y.
Nashville, Tenn.
New Orleans, La.

Oakland, Calif.
Oklahoma City, Okla.
Oteen, N.C.
Outwood, Ky.
Portland, Oreg.
Providence, R.I.
Richmond, Va.
Rutland Heights, Mass.
Salt Lake City, Utah.
San Fernando, Calif.
Sepulveda, Calif.
Sunmount, N.Y.
Syracuse, N.Y.
Temple, Tex.
Tucson, Ariz.
Wadsworth, Kans.
Walla Walla, Wash.
West Haven, Conn.
Whipple, Ariz.
Wood, Wis.
Fitzsimons (USA), Denver, Colo.
St. Albans (USNH), St. Albans, N.Y.
San Diego (USNH), San Diego, Calif.
Scott AFB (USAF), Ill.

VA Central Office representatives:
Edward Dunner, M.D., chief, cooperative studies division.
Mrs. Dorothy G. Livings, biostatistician.
James W. Raleigh, M.D., executive secretary.

(13) Patients With a Diagnosis of Psychosis and Tuberculosis

This cooperative study group was founded 5 years ago. As it is now being discontinued, a brief statement of the research activities of this group during that period seems indicated.

(a) The concomitant use of antituberculous drugs (isoniazid, in high and low doses, pyrazinamide, streptomycin, PAS, and cycloserine) with various tranquilizers such as chlorpromazine, etc., was found to be free of combined toxicity to the liver, kidneys, bone marrow, or other organ systems.

(b) The use of isoniazid even in high doses was not found to have any adverse effect on the psychiatric status of patients in need of mental hospital care.

(c) The use of cycloserine in mentally ill patients was found to be without important psychiatric complications and this drug's usefulness in NP-tuberculosis patients was demonstrated.

(d) A review of patients who had received electric shock therapy, along with antituberculous drugs, in the presence of frankly active tuberculosis did not reveal any appreciable degree of untoward complications.

(e) The management of NP-tuberculosis patients with open cavities and negative cultures (open-negative cases) by a continuation of drug therapy—often isoniazid alone for an indefinitely prolonged period—was found to be an effective way of controlling the disease, preventing relapses and avoiding contagion.

(f) The management of NP-tuberculosis patients without bed rest but on a full activity program despite the presence of active tuberculosis was demonstrated to be an effective method of handling this problem. Therapeutic results for the tuberculosis were very good, and it is believed that the full activity program was of value in the management of the psychiatric condition.

(g) A program of annual X-rays in all NP hospitals with immediate isolation of actual or suspected cases of tuberculosis has resulted in a steady decline of new cases developing in patients with previously normal X-rays. The seriousness of relapses in patients

with inactive tuberculosis has been well controlled by close and careful followup of all such patients with frequent chest X-rays and other laboratory work, as necessary. Although a randomized study of isoniazid administration to such patients was planned, it was never actually put into effect because of the small yield of newly active cases to be anticipated.

The VA hospitals and the principal investigators participating in this study are:

Augusta, Ga.: William R. Burdison, M.D.
Brockton, Mass.: Emil Rothstein, M.D. (chairman).
Coatesville, Pa.: David Levin, M.D.
Downey, Ill.: Thomas Worobec, M.D.
Houston, Tex.: Aaron A. Sprong, M.D.
Jefferson Barracks, Mo.: Casimir Mogenis, M.D.
Montrose, N.Y.: Edward Garment, M.D.
Sepulveda, Calif.: George Altbach, M.D.

VA Central Office representatives:

Edward Dunner, M.D., chief, cooperative studies division.
Mrs. Dorothy Livings, biostatistician.
James W. Raleigh, M.D., coordinator.

(14) Chronic Bronchitis Study Group

Since the conclusion of World War II, considerable attention has been given to a clinical syndrome known as chronic bronchitis which is a frequent cause of severe pulmonary disability. Particular attention has been paid to this disease in England where the incidence of disability from it approaches enormous proportions. There is considerable information now available to indicate that at least the three factors of (a) increasing age, (b) cigarette smoking, and (c) membership in the male sex are important in the clinical appearance of the disease. Since presently there are 22 million veterans, six million of whom are already over 45 years of age, and because this is an almost totally male population with a very high proportion of chronic cigarette smokers, it seemed prudent to devote attention to this problem. A committee was appointed to evaluate the possibility of studies of causation, prevention, and treatment of this disease in our veteran population.

The VA hospitals and the principal investigators participating in this study are:

Baltimore, Md.: Richard F. Kieffer, Jr., M.D.; Francis O'Grady, M.D., Patrick B. Storey, M.D. (chairman)
Houston, Tex.: Hollis G. Boren, M.D.
Salt Lake City, Utah: H. William Harris, M.D.
Syracuse, N.Y.: Attilio D. Renzetti, Jr., M.D.
Washington, D.C.: Sol Katz, M.D.

VA Central Office representatives:

Edward Dunner, M.D., chief, cooperative studies division.
James W. Raleigh, M.D., coordinator.
Mrs. Frances M. Wright, statistician.

(15) Pulmonary Function Testing

The study of deranged pulmonary physiology in patients with pulmonary disease continues to be a fruitful endeavor in many VA hospitals. The results of such studies are important, not only because they

aid in the management of individual patients, but also because they establish broad general principles and identify mechanisms of disease. Such information frequently has wide application in the large group of veteran patients who suffer from breathlessness on slight exertion and have disturbances in exchange of oxygen and carbon dioxide.

The Committee on the Cooperative Study of Pulmonary Function has not only provided a forum for the exchange of ideas and information in this important area, but has also initiated cooperative studies in which many VA hospitals and laboratories are ideally suited to contribute.

A study of clinical spirometry in 468 normal men has been completed. This is the largest collection of such data to be assembled to date and it has permitted the calculation of prediction formulae which have greater reliability than others that are presently available.

Physiologic and clinical data from 470 patients with chronic pulmonary emphysema have been collected. 330 of these patients have been followed for 1 year and 111 for 2 years. Data from these studies should soon yield previously unavailable information on the course of this disabling disease.

In 425 patients having various surgical procedures, pre- and postoperative clinical and physiologic observations have been assembled. Correlations of these measurements with subsequent pulmonary disability are being made and may lead to useful predictive information.

In addition to these specific studies in which well advanced or complete results are available, the forum which this committee has provided has stimulated exchanges of ideas which are only beginning to be explored. For example, the correlation of microscopic anatomy of the normal and physiologically deranged lung with pulmonary function is beginning to receive much attention in many centers and promises to be an interesting and important development.

The VA hospitals and the principal investigators participating in this study are:

Albany, N.Y.: James H. Cullen, M.D.
Albuquerque, N. Mex.: A. North Longfield, M.D.
Baltimore, Md.: Leon Bernstein, M.D.
Birmingham, Ala.: Ben Branscomb, M.D.
Castle Point, N.Y.: Arthur Nathan, M.D.
Dallas, Tex.: Russell H. Wilson, M.D.
Houston, Tex.: Hollis G. Boren, M.D.
Madison, Wis.: Edna Cree, M.D.
Martinsburg, W. Va.: Pierre Tulou, M.D.
Richmond, Va.: Charlie Wingo, M.D.
Salt Lake City, Utah: Jerome E. Cohn, M.D.
San Fernando, Calif.: Aaron A. Cohen, M.D.
Sunmount, N.Y.: James H. Bannon, M.D.
Syracuse, N.Y.: Robert Dutton, M.D.; Attilio D. Renzetti, Jr., M.D.
West Haven, Conn.: Robert Nims, M.D.
Wood, Wis.: Ross C. Kory, M.D.

Those organizations, other than the Veterans' Administration, cooperating in this study are:

Fitzsimons Army Hospital, Denver, Colo.: Maj. James C. Syner, MC.

Consultants:

John H. McClement, M.D., chief, chest service, Bellevue Hospital, New York, N.Y. (chairman).

Julius H. Comroe, Jr., M.D., director, Cardiovascular Research Institute, University of California Medical Center, San Francisco, Calif.

Richard Riley, M.D., Johns Hopkins University School of Hygiene and Public Health, Baltimore, Md.

George Wright, M.D., Department of Medical Research, St. Lukes Hospital, Cleveland, Ohio.

VA Central Office representatives:

Edward Dunner, M.D., chief, cooperative studies division.

James W. Raleigh, M.D., coordinator.

John H. Williams, Jr., biostatistician.

(16) Blastomycosis

A survey of the VA hospitals revealed that approximately 250 patients with a diagnosis of blastomycosis had been treated between the period from January 1, 1946, until December 31, 1956. A retrospective study was instituted on this group of patients in December 1956, and the collection of these data should be completed by July 1, 1960. During the interim the Blastomycosis Study Committee has been engaged in the development of a protocol and a carefully planned sequence of report forms for the prospective study of this disease. The Blastomycosis Committee met in Durham, N.C., in July 1959 and subsequent to this meeting constant correspondence has been established among the members in the development of the prospective phase of this program. The protocols are completed and the report forms will be printed during the third quarter of fiscal year 1960. It is expected that patients will be placed on the study on or shortly after January 1, 1960, for randomized treatment between Amphotericin-B and 2-hydroxystilbamidine.

The VA hospitals and principal investigators participating in this study are:

Columbia, S.C.: S. L. Zimmerman, M.D.

Durham, N.C.: Roger D. Baker, M.D.

Jackson, Miss.: John F. Busey, M.D.

Louisville, Ky.: Daniel Pickar, M.D.

Memphis, Tenn.: W. D. Sutliff, M.D.; Sara C. McDearman, Ph.D.

New Orleans, La.: Howard Buechner, M.D.

Oteen, N.C.: Harry E. Walkup, M.D. (chairman); James H. Matthews, M.D.

Consultant:

David T. Smith, M.D., professor of bacteriology and associate professor of medicine, Duke University, Durham, N.C.

VA Central Office representatives:

Edward Dunner, M.D., chief, cooperative studies division.

James W. Raleigh, M.D., coordinator.

John H. Williams, Jr., biostatistician.

(17) Coccidioidomycosis

The Coccidioidomycosis Coopertive Study has completed a retrospective study of admissions to VA and Armed Forces hospitals

during the years 1955 through 1958. The data, under analysis at the present time, cover approximately 900 patients with this disease.

The accomplishments to date may be considered in three parts; namely, the organization, the clinical aspects, and the laboratory phases. The study now includes 18 study-units which have been welded into a cooperative group including executive, laboratory, surgical, and exhibits committees. The clinical aspects cover analyses of the various features of the disease and, although this study includes almost entirely male adults, much information has been gleaned and additions to the natural history of the disease are being gathered regarding the prognosis of disseminated cocci and the fate of residual cavities. Entirely new concepts are being developed on the classification of the disease and the surgical indications and contraindications. An excellent therapeutic control has been developed for future comparison with specific chemotherapeutic agents.

The reference laboratory has, in its culture bank, over 200 strains all of which have been characterized with respect to mouse virulence. A number of them have also been tested for Amphotericin B susceptibility. The tests show no clear correlation between *in vitro* susceptibility to the drug and its protective action for mice. The laboratory provides complete serological services for the study units, spot checks for laboratories doing their own tests, and prepares and distributes antigens. A survey of the cases in the study reveals that one-fourth of the patients with proved coccidioidomycosis have negative skin tests; the different batches of antigen employed did not appear to be responsible for this. Another interesting finding was the relationship of the "critical" titer to the type of disease: 80 percent of the chronic pulmonary cases had titers of 1:16 or less; 90 percent of the disseminated cases (nonmeningeal) had titers over 1:16; the meningitis cases presented an intermediate pattern with only 50 percent showing a titer above 1:16.

The future plans include a permanent registry and followup of all "cocci" cases with special study of chemotherapy cases, surgical cases, disseminated cases, and cavitary lesions. Evaluation of Amphotericin B continues; no conclusions regarding it have been reached except the impression that it is not a highly effective agent for the treatment of this disease. Although definite benefit has been seen in a number of patients, the eventual relapse rate is extremely high. Only prolonged observation will produce more definite answers.

An exhibit on coccidioidomycosis was shown in 1959 at the meetings of the American Medical Association, National Tuberculosis Association, and the American Public Health Association.

The annual meetings have assumed a two-day pattern; the first day devoted to administrative meetings and the second day to a scientific session. The fourth annual meeting was held the first week of December 1959, and was attended not only by the study units but by numerous guests from the various States in the endemic area and even from the East. The need for this cooperative study is further emphasized by the fact that the annual meetings have become a focal point for all workers in coccidioidomycosis.

The VA hospitals and the principal investigators participating in this study are:

Albuquerque, N. Mex.: William Hentel, M.D.
Fresno, Calif.: Stephen Cheu, M.D.
Houston, Tex.: Irving Chofnas, M.D.
Kerrville, Tex.: John A. Carswell, M.D.
Long Beach, Calif.: Leroy Hyde, M.D.
Los Angeles, Calif.: Sydney Finegold, M.D.
Oakland, Calif.: Selig Weinstein, M.D.
Phoenix, Ariz.: Bernard M. Lipschultz, M.D.
San Fernando, Calif.: David Salkin, M.D. (chairman); Milton Huppert, Ph. D.
Tucson, Ariz.: Solomon Netzer, M.D.
Whipple, Ariz.: J. C. Soderstrom, M.D.

Those organizations, other than the Veterans' Administration, cooperating in this study are:

Wm. Beaumont AH, El Paso, Tex.: Col. Robert C. Hunter.
Davis-Monthan AFB, Ariz.: Dr. Peter R. Meis.
Fitzsimons AH, Denver, Colo.: Col. James A. Wier.
Lackland AFB, Tex.: Col. Robert B. Stonehill.
Luke AFB, Ariz.: Capt. John D. Potter.
USNH, San Diego, Calif.: Capt. John F. Chace.
Travis AFB, Calif.: Col. James H. Hammond.

Consultants:

Robert O. Egeberg, M.D., medical director, Los Angeles County General Hospital, Los Angeles, Calif.
Charles E. Smith, M.D., dean, University of California School of Public Health, Berkeley, Calif.

VA Central Office representatives:

Edward Dunner, M.D., chief, cooperative studies division.
James W. Raleigh, M.D., coordinator.
John H. Williams, Jr., biostatistician.

(18) Histoplasmosis

Review of data on histoplasmosis contributed from 11 cooperating hospitals has resulted in reports on (a) histoplasmosis case finding and (b) amphotericin-B therapy of chronic pulmonary histoplasmosis. An average of 0.9 percent of cases surveyed in pulmonary disease, tuberculosis, and infectious disease hospital units was found to have histoplasmosis confirmed by culture or histologic identification of H. capsulatum. Chronic pulmonary histoplasmosis, either fibrocavitary with lobar or segmental distribution; or nodular, respectively, predominated in the hospitals with the highest incidences. Continued high index of diagnostic suspicion and elective but not routine performance of fungus cultures, serologic tests, interdermal tests, and histologic examinations of appropriate available tissue specimens were all found of value in diagnosis. The identification of chronic pulmonary histoplasmosis cases made possible a systematic therapeutic trial of amphotericin-B. It was found that the fungus disappeared from the sputum promptly in all cases, and in a significant number but not in all the titer of circulating antibodies fell, symptoms improved, and roentgenographic lesions improved. Relapses occurred following amphotericin-B therapy in 3 of 17 treated cases.

The antibiotic was found to be the most effective therapy yet employed for chronic pulmonary histoplasmosis. It was not the ideal preparation, however, because of its toxicity which limited the maximum dosage and because it required prolonged hospitalization for its administration.

Case finding is continuing in that a file of histoplasmosis cases is recorded and therapy with amphotericin-B is administered according to a uniform standard procedure. Possible relationships of skin tests using antigens from fungi to the appearance or change in titer of serologic antibodies was noted and is being systematically studied in one hospital. The possibility that there are human dosage forms effective on oral administration was suggested following animal studies by a committee member and this subject is being studied in patients.

The cooperative study accumulated a file of histoplasmosis cases and plans to discuss the analysis of the data particularly with respect to (a) the description of the clinical manifestations of the disease and (b) the diagnostic, prognostic, and therapeutic interrelationships of tuberculosis and histoplasmosis. The establishment of a special laboratory for the development and accomplishment of correlated research projects dealing with strains of fungi and therapeutic agents for histoplasmosis and certain other fungus diseases is planned.

The VA hospitals and the principal investigators participating in this study are:

Ann Arbor, Mich.: Robert A. Green, M.D.
Cincinnati, Ohio: Gerald L. Baum, M.D.
Kansas City, Mo.: Charles E. Andrews, M.D.
Little Rock, Ark.: Erner Jones, M.D.
Memphis, Tenn.: W. D. Sutliff, M.D. (chairman); Sara C. McDearman, Ph. D.
Minneapolis, Minn.: Frank M. MacDonald, M.D.
Nashville, Tenn.: Robert T. Terry, M.D.
San Juan, P.R.: Edmundo R. Figueras, M.D.
Wood, Wis.: Francis B. Landis, M.D.

Those organizations, other than the Veterans' Administration, cooperating in this study are:

Fitzsimons Army Hospital, Denver, Colo.: Col. James A. Wier, MC.
St. Albans Naval Hospital, Long Island, N.Y.: Capt. J.A.C. Gray, MC, USN.
Walter Reed General Hospital, Washington, D.C.: Charlotte C. Campbell.

Consultant:

Michael L. Furcolow, M.D., USPHS, Kansas City, Kans.

VA Central Office representatives:

Edward Dunner, M.D., chief, cooperative studies division.
James W. Raleigh, M.D., coordinator.
John H. Williams, Jr., biostatistician.

(19) Sarcoidosis

(a) The Cooperative Study of Sarcoidosis was established originally to investigate the following aspects: 1. Epidemiology; 2. immunology; 3. etiologic agents; 4. clinical picture; 5. biochemical abnormalities.

(b) Accomplishments:

1. *Epidemiology.*—Intensive inquiry into total environmental factors of patients with sarcoid and carefully matched controls have failed to reveal any significant differences.

2. *Immunology.*—Extensive study of sera has failed to reveal any positive reactions to known fungal agents. Search for antibodies to various pine antigens has revealed positive reactions in 10 percent of patients with sarcoid and only 2 percent in normal individuals and patients with nongranulomatous disease, and tuberculosis.

3. *Biochemical abnormalities.*—Routine hematologic, biochemical, and electrolyte determination have been unrewarding. Of importance has been the determination of calcium excretion in the urine rather than blood calcium.

(c) Ongoing studies:

1. *Epidemiology.*—A major field study in Florida is investigating the geographical prevalence of sarcoidosis, possible ecologic relationships, the incidence and significance of bilateral hilar adenopathy, the prevalence of skin reactions to pine pollen antigens, PPD, PPD–B, and serum electrophoretic patterns in the groups under study.

2. *Immunology.*—(a) A widespread field study is being undertaken to evaluate the Kveim antigen as an acceptable clinical aid in diagnosis of sarcoidosis. Using a double-blind method, Kveim and control antigens will be tested in patients with known or suspected sarcoid, nongranulomatous diseases, and normals. (b) Investigation into the demonstration of serologic and tissue antibodies to pine pollen by means of the fluorescent staining technique. (c) Tissue culture to study the morphologic appearance of sarcoid granuloma and the effect of delayed cellular allergy, utilizing PPD, pine pollen fractions, and histoplasmin. With this study, attempts will be made to identify possible etiologic agents (bacteria, viral, fungal).

3. *Biochemical.*—The major aspect concerns that of calcium metabolism as related to absorption and excretion, relationship to vitamin D, and influence of corticosteroid therapy.

(d) Future plans: In addition to the continuation of current investigations, two additional areas are to be explored:

1. Analysis of the accumulated clinical data on patients with proven sarcoidosis.

2. Protocol evaluation of the efficacy of steroid therapy in influencing the development of residual fibrosis in the lungs. This latter study will be done by those study units with pulmonary function laboratories.

The VA hospitals and the principal investigators participating in this study are:

Ann Arbor, Mich.: Robert A. Green, M.D.
Atlanta, Ga.: James C. Crutcher, M.D. (chairman); Ralph A. Vogel, Ph. D.
Bronx, N.Y.: Daniel J. Stone, M.D.
Dallas, Tex.: Delmar O. Shields, M.D.
Fort Howard, Md.: Abraham A. Polachek, M.D.
Jacksonville, Fla. (VAO): C. Fred McCuiston, M.D.
Madison, Wis.: J. Richard Johnson, M.D.
Nashville, Tenn.: Robert A. Goodwin, M.D.
Oklahoma City, Okla.: James H. Hammarsten, M.D.

Philadelphia, Pa.: Theodore Rodman, M.D.
San Juan, P.R.: Edmundo R. Figueras, M.D.
Washington, D.C.: Sol Katz, M.D.
West Haven, Conn.: George J. Friou, M.D.

Those organizations, other than the Veterans' Administration, cooperating in this study are:

Armed Forces Institute of Pathology, Walter Reed Army Medical Center, Washington, D.C.: Frank B. Johnson, M.D.
Clinical Center, National Institutes of Health, Bethesda, Md.: Norman H. Bell, M.D.
Eastern North Carolina Sanatorium, Wilson, N.C.: Frances E. Noblin, M.D.
Walter Reed General Hospital, Washington, D.C.: Maj. Joel H. Richert, MC.

Consultants:

Horace W. Bernton, M.D., instructor of medicine, Georgetown University, Washington, D.C.
John S. Chapman, M.D., assistant dean for postgraduate education and alumni relations and professor of medicine, University of Texas, Southwestern Medical School, Dallas, Tex.
Martin M. Cummings, M.D., professor and chairman, Department of Microbiology, University of Oklahoma School of Medicine, Oklahoma City, Okla.
Max Michael, Jr., M.D., director, Jacksonville Hospitals Educational Program, Jacksonville, Fla.

VA Central Office representatives:

Edward Dunner, M.D., coordinator.
John H. Williams, Jr., biostatistician.

B. Surgical Cooperative Studies

(1) Hospital Infections

During the year 1959 the earlier activities of the cooperative study have through transition to hospital services of VA, resulted in the establishment of hospital infection committees, reporting of infections in hospitals with summaries to area and central office and a mechanism for spot inspection in trouble areas. A system of reference laboratories is developing, and in the interim the Research Program Reference Laboratory at VA Batavia is serving this purpose. The experience gained during the past 2 years of the cooperative study has greatly facilitated the development of suitable report forms and other similar matters in establishing these service systems. In particular, the experience of the Cooperative Study Reference Laboratory continues to be of great aid in developing the area reference laboratories.

The group has now turned its attention to studies dealing more directly with means and methods of reducing established patterns and levels of infections in our various hospitals, and of prevention of infections. In this connection the activities of the committee have been greatly strengthened by the advent of two new members, Dr. Stuart Mudd and Dr. Gladys Hobby, both established authorities in the field of experimental infectious disease and epidemiology. Two major activities along these line are underway. The first is at VA Center, Los Angeles, under Dr. Sydney Finegold, a highly critical

study on the effect of environmental control of Hospital Infections. In this study, the environmental control techniques previously studied at the Francis Delafield Hospital in New York as well as the application of ultraviolet light are being initiated for evaluation in a controlled manner. It is felt that favorable combinations of circumstances available at the Los Angeles VA installation will provide a more complete and definitive answer to this important question than has hitherto been available. This study is developing under the guidance of the Cooperative Study Committee with combined financing by VA and grant aid from the National Institutes of Health.

The second is the initiation of concrete planning for a study on the effect of active immunization by various toxoids and vaccines on the body resistance to staphylococcus, with particular reference to the carrier state. This is being done under the developmental direction of the Committee. Dr. Ralph Vogel of VA hospital, Atlanta, will be principal investigator for VA.

The collection of data on the effect of drug restriction on the staphylococcus infection rate and phage pattern in a given hospital continues at Buffalo and Syracuse. Availability of support is a limiting factor in the effectiveness of these studies.

The VA study has initiated arrangements to collaborate with the Canadian VA study in the development of a comprehensive and systematic compilation of pertinent information on all aspects of hospital staphylococcus infections. The great importance of this problem is the relative rapidity with which it has led to the production of so enormous a mass of sometimes duplicating and sometimes conflicting literature that no individual worker or group of workers can keep abreast of the field. The availability of a critically selected, comprehensive, systemized reference file will fill a great need for all workers in the field.

VA hospitals and principal investigators participating in the studies are:

Atlanta, Ga.: Ralph Vogel, Ph.D.
Batavia, N.Y.: Lewis Griffith, Ph.D.
Bronx, N.Y.: Max Bovarnick, M.D. (chairman)
East Orange, N.J.: Gladys Hobby, Ph.D.
Manchester, N.H.: Murray Levin, M.D.
Philadelphia, Pa.: Stuart Mudd, M.D.
Queen Mary Veterans Hospital, Montreal, Canada: D. Hugh Starkey, M.D.

Consultant:

Dr. Maxwell Finland, Thorndike Institute, Boston City Hospital, Boston, Mass.

Guest participant:

Dr. Arnold Branch, chief, laboratory service, Lancaster Hospital, St. John, New Brunswick, Canada.

Clinical participants:

Batavia, N.Y.: John B. Perkins, M.D.
Bronx, N.Y.: Max Bovarnick, M.D.
Buffalo, N.Y.: William Chardack, M.D.
Butler, Pa.: Florence Jenney, M.D.
Manchester, N.H.: Murray Levin, M.D.
Syracuse, N.Y.: Lloyd Rogers, M.D.

VA Central Office:
Lyndon E. Lee, Jr., M.D., coordinator.
Julian I. Lewis, biostatistician.

(2) Coronary Heart Disease Surgery

This is a cooperative study designed by medical and surgical participants to foster development of and to evaluate surgical therapy in the treatment of coronary artery disease.

A subcommittee has been selected to aid worthy VA research efforts in the development of other and additional new diagnostic and therapeutic procedures aimed toward the direct surgical treatment of coronary disease.

For initial study an accepted though unproven surgical approach to the treatment of angina pectoris (a modification of the Beck I operation) is being evaluated by a standardized method of operation and followup evaluation in cooperating VA hospitals throughout the country. The protocol and evaluation is a combined medical, surgical, and pathologic study. Improvement is being evaluated both by comparison of symptoms and by more objective means, such as by the number and severity of subsequent infarcts and by the length of survival. Controls are being randomized according to accepted methods.

One hospital (Des Moines) is studying similar patients with angina following thoracic sympathectomy. Selection and followup of these patients is according to the method of the general study protocol.

It is anticipated that in the future other operative procedures will be added to the study.

Participating hospitals and their surgical and medical investigators, are:

Albuquerque, N. Mex.: J. Wilson, M.D.; Fred Watkins, M.D.
Buffalo, N.Y.: William M. Chardack, M.D.; Joseph T. Roberts, M.D.; Joseph T. Aquilina, M.D.
Coral Gables, Fla.: Mark W. Wolcott, M.D. (subchairman); Fred Wasserman, M.D.
Denver, Colo.: Ben Eiseman, M.D. (chairman); Ray Pryor, M.D.
Des Moines, Iowa: Louis Palumbo, M.D.
Hines, Ill.: Charles Puestow, M.D.
Long Beach, Calif.: Charles W. McLenathen, M.D.; Raymond Killeen, M.D.; Douglas C. Holman, M.D.; L. Lawrence, M.D.
Memphis, Tenn.: Roger E. Campbell, M.D.; Fred Knox, M.D.
Minneapolis, Minn.: Donald J. Ferguson, M.D.; James L. Brown, M.D.
Oklahoma City, Okla.: Rene Menguy, M.D.; James Hammarsten, M.D.; Philip Johnson, M.D.
Oteen, N.C.: Timothy Takaro, M.D.; Robert G. Fish, M.D.
Pittsburgh, Pa.: Charles L. Adams, M.D.; Edward Heckert, M.D.
Salt Lake City, Utah: W. Knox Fitzpatrick, M.D.
Syracuse, N.Y.: Lloyd S. Rogers, M.D.; Val Jager, M.D.
Washington, D.C.: George Higgins, M.D.
White River Junction, Vt.: Walter Crandell, M.D.; Joseph Grant, M.D.

Consultant:

Dr. Brian Blades, director, Department of Surgery, George Washington University Medical School, Washington, D.C.

Biostatistician:

Dr. James Hagans, University of Oklahoma Medical Center, Oklahoma City, Okla.

VA Central Office:

Lyndon E. Lee, Jr., M.D., coordinator.

(3) Esophageal Varices

The study of esophageal varices has continued during 1959 and as of November 19, 1959, 177 cases had been entered into the study group. The makeup of the participating hospitals has changed somewhat, two hospitals having withdrawn and three additional hospitals have entered the study. The total number of participating hospitals is now eight.

At this stage, the followup period has been too short to accumulate data with statistical significance. As the number of cases entered into the study grows and the period of followup is prolonged, it is felt that the natural history of selected patients with esophageal varices and the value of current therapeutic techniques will be clarified.

Committee members and participants include:

Augusta, Ga.: Joseph Lozner, M.D.; C. Martin Rhode, M.D.

Bronx, N.Y.: Philip Cooper, M.D.

Cincinnati, Ohio: Alfred Keirle, M.D.; Yo Oikowa, M.D.

Coral Gables, Fla.: Mark Wolcott, M.D.; Martin H. Kalser, M.D.

Indianapolis, Ind.: Robert Carlson, M.D. (chairman); P.R. Christiansen, M.D.; Robert E. Lempke, M.D.

Long Beach, Calif.: Stephen Stempien, M.D.

Pittsburgh, Pa.: Francis Jackson, M.D.

San Juan, P.R.: Luis Passalacqua, M.D.; Rafael Rodriguez-Molina, M.D.; Jose de Jesus, M.D.

Consultants:

Dr. C. Gardner Child, III, chairman, Department of Surgery, University of Michigan.

Dr. Harrison Shull, assistant professor of medicine, Vanderbilt University, Nashville, Tenn.

Dr. Louis M. Rousselot, professor, clinical surgery, New York University College of Medicine, New York, N.Y.

VA Central Office:

Lyndon E. Lee, Jr., M.D., coordinator.

(4) Evaluation of Analgesics

Evaluation of these narcotic substances in acute pain, pre- and post-operative patients, and individuals in the terminal stages of painful fatal afflictions, as well as for cough control serves to further the aims of necessary research while providing benefit in education of hospital staffs and improvement in patient care. During some 20 years the National Research Council Committee on Narcotics and Drug Addiction has fostered development of techniques to evaluate these substances.

Study of premedication is continuing at VA Bronx and VA Hines, and further studies are in progress of development on the surgical and anesthesiology services at VA Center, Los Angeles.

VA hospitals and principal investigators participating in this study are:

Bronx, N.Y.: Benjamin Ciliberti, M.D.
Hines, Ill.: Max Sadove, M.D.
Los Angeles, Calif.: Phyllis Shroff, M.D.

Consultant:

Dr. Nathan B. Eddy, member of Panel of Experts on Narcotics and Addiction, World Health Organization, secretary, Drug Addiction and Narcotics Committee, National Research Council, National Institutes of Health, Bethesda, Md.

VA Central Office:

Lyndon E. Lee, Jr., M.D., coordinator.

(5) Surgical Treatment of Parkinsonism

This study is directed primarily toward development of information on the life history of patients with any of the several types of Parkinson's syndrome, and selection of those who may be most benefited by surgical procedures. It is the special province of this study to evolve objective means for evaluation of patients, their classification and treatment. The study is being undertaken with close collaboration and supervision through neurosurgical and neurology services in participating hospitals.

The committee of the VA Cooperative Study on the Surgical Treatment of Parkinson's Disease met at the invitation of the Canadian Department of Veterans Affairs in Montreal, Quebec, on October 10–17, 1959. The meeting was held at the Queen Mary Veterans Hospital in Montreal with invited guests representing many fields of medical and surgical research, both basic and applied. The proceedings of the meeting will be jointly published in the near future. A protocol for the Cooperative Study on Parkinsonism has been developed, and selected patients are being subjected to operation as the clinical phase of the study is initiated. It is felt this is a long-term program in which careful evaluation of a few patients will be more productive and generally beneficial than a large-scale effort in this relatively unexplored field.

VA hospitals and principal investigators participating in this study are:

Boston, Mass.: John Drew, M.D.
Cincinnati, Ohio: G. Robert Nugent, M.D.
Coral Gables, Fla.: August Buermann, M.D.
Durham, N.C.: Blaine Nashold, M.D. (chairman).
Iowa City, Iowa: Olan Hyndman, M.D.
Long Beach, Calif: R. W. Porter, M.D.
Richmond, Va.: Jack L. Ulmer, M.D.

Consultants:

Dr. Barnes Woodhall, Duke University, Durham, N.C.
Dr. Francis Forster, University of Wisconsin, Madison, Wis.

Guest participant:

VA hospital, Perry Point, Md.: Richard Shackelford, M.D.

VA Central Office:

Lyndon E. Lee, Jr., M.D., coordinator.
Thomas L. Auth, M.D., chief, neurology division.

(6) Peptic Ulcer

Twelve VA hospitals are participating in a Study on Peptic Ulcer. A retrospective study of patients treated surgically during the past 10 years is currently in the final stages of the accumulation of data. Approximately 2,500 cases will be available for analysis in the spring of 1960.

On the basis of the information obtained from this analysis, a prospective study will be established. The objectives will be to determine more accurately the indications for the surgical treatment of peptic ulcer and to attempt to ascertain the most beneficial type of surgical procedure.

A part of this peptic ulcer study has been a psychological evaluation of those patients with peptic ulcer who are to have operation because of intractability of the disease. At the present time a psychological testing scale has been established and applied to a pilot group of patients with promising results. More extensive application of this scale is now being carried out at VA hospitals in Atlanta and Durham.

The VA hospitals and the principal investigators participating in this study are:

Atlanta, Ga.: James Thoroughman, M.D.
Bay Pines, Fla.: Thomas Dunn, M.D.
Bronx, N.Y.: Philip Cooper, M.D.
Des Moines, Iowa: Louis Palumbo, M.D.
Durham, N.C.: Ray W. Postlethwait, M.D. (chairman).
Long Beach, Calif.: Joseph Weinberg, M.D.
Nashville, Tenn.: Walter Gobbel, Jr., M.D.
New Orleans, La.: Lyman Richardson, M.D.
Oakland, Calif.: Stanley H. Schonberger, M.D.
Syracuse, N.Y.: Lloyd Rogers, M.D.
Tuskegee, Ala.: John S. Hume, M.D.
Wilkes-Barre, Pa.: Harry S. Irons, M.D.

Consultants:

Dr. Isidor Ravdin, John Rhea Barton professor of surgery, Hospital of the University of Pennsylvania, Department of Surgery, Philadelphia, Pa.
Dr. Lester Dragstedt, University of Chicago, Department of Surgery, Chicago, Ill.

VA Central Office:

Lyndon E. Lee, Jr., M.D., coordinator.

(7) Ruptured Intervertebral Disk

A comprehensive study of ruptured intervertebral disc patients has been instituted by the VA in collaboration with the National Research Council. The study will be based on the U.S. military experience. A protocol has been developed under the aegis of consultants, Dr. Barnes Woodhall and Dr. Harold Sofield, and participants from the National Research Council Followup Agency. The first executive committee meeting of the VA Cooperative Study Group on Herniated Intervertebral Discs was held at the VA Central Office on October 12, 1959, and a pilot study was initiated by the group of VA neurosurgeons and orthopedic surgeons.

Participating hospitals and their investigators are:

Albany, N.Y.: Henry M. Dratz, M.D.; D. I. Schwartz, M.D.
Boston, Mass.: John H. Drew, M.D.
Bronx, N.Y.: E. G. Kreuger, M.D.; J. H. Doherty, M.D.
Denver, Colo.: Murray E. Gibbens, M.D.
Durham, NC.: Blaine X. Nashold, M.D.
Long Beach, Calif.: Robert W. Porter, M.D.; R. H. Hutchinson, M.D.
New York, N.Y.: G. Truckly, M.D.
Omaha, Nebr.: C. W. Burklund, M.D.

Consultants:

Dr. Barnes Woodhall, Duke University, Durham, N.C.
Dr. Harold A. Sofield, Northwestern University, Chicago, Ill.

Biostatistician:

Dean Nefzger, Ph. D., Followup Agency, National Academy of Sciences, Washington, D.C.

VA Central Office:

Lyndon E. Lee, Jr., M.D., coordinator.

(8) VA-Armed Forces Cooperative Study on Resected Solitary Pulmonary Nodules

The first organizational meeting for a VA-Armed Forces Cooperative Study on Resected Solitary Pulmonary Nodules was held 2 years ago. This was followed by a pilot study conducted by 11 hospitals, during which the mechanics of the study were streamlined.

General participation was invited in the spring of 1959. Acceptances were received from 90 hospitals: 77 VA and 13 Armed Forces.

The resected solitary pulmonary nodules included in this study by definition must have been asymptomatic, and must not have been diagnosed positively preoperatively. The nodules may be of any size and shape, but on the preoperative X-ray must be sharply circumscribed, although not necessarily smooth, with a clear surrounding lung field. A nodule may contain calcium and may be cavitated. Other pulmonary disease unrelated to the nodule in question may be present.

The objectives of the study are—

(a) To assist in determining the incidence of malignancy in solitary pulmonary nodules in males, with respect to such criteria as age, character, size, and stability of the nodule.

(b) To determine the prognosis of resected localized primary carcinoma of the lung.

(c) To determine the prognosis of resected metastatic malignancy of the lung.

(d) To gather information concerning benign tumors, congenital anomalies, and isolated infectious lesions of the lungs.

This large-scale, nationwide study should eliminate many of the variables which have been presented in smaller studies of solitary pulmonary nodules.

On each case, participating hospitals submit a report form, the most significant X-rays, and a portion of the nodule. The X-rays are duplicated on 8- by 10-inch transparencies and included in the case file. Extensive histologic and histochemical examinations are done on the pathologic material.

The report form includes data on skin tests, fungus serology, the date of the last known negative chest X-ray, the reason for the first

positive X-ray, a list of all negative diagnostic studies in the preoperative workup, and the details of the operative procedure.

Each patient's folder contains the initial and followup forms, the duplicated X-rays, and the pathologic reports.

All cases are coded as they are received, on Keysort cards. Followup for the present is confined to malignant lesions. A total of 194 cases has thus far been submitted from 46 hospitals.

The VA and Armed Forces participants are—

Steering committee:

Oteen, N.C.: Harry Walkup, M.D.
San Fernando, Calif.: John D. Steele, M.D. (chairman).
Wadsworth, Kans.: Paul H. Guilfoil, M.D.
U.S. Air Force, Medical Corps, Lackland Air Force Base, San Antonio, Tex.: Lt. Col. Edward P. Smith.
U.S. Army, Medical Corps, Fitzsimons Army Hospital, Denver, Colo.: Maj. Dean Winn.
U.S. Naval Hospital, Medical Corps, St. Albans, N.Y.: Capt. Joseph J. Timmes.

Consultants:

Dr. Norman Wilson, 135 Francis Street, Boston 15, Mass.
Dr. Edgar W. Davis, 1150 Connecticut Avenue NW., Washington, D.C.
Dr. Hiram T. Langston, Chicago State Tuberculosis Sanitarium, Chicago, Ill.

Referee pathologists:

Dr. Perry J. Melnick, VA hospital, San Fernando, Calif.
Dr. Sam Rosen, AFIP, Walter Reed Army Medical Center, Washington, D.C.

Mycologist:

Dr. Milton Huppert, VA hospital, San Fernando, Calif.

VA Central Office:

Lyndon E. Lee, Jr., M.D., coordinator.
Mrs. Dorothy R. Livings, biostatistician.

Clinical contributors:

VA:

Albany, N.Y.: John A. O'Hern, M.D.
Albuquerque, N. Mex.:
Alexandria, La.: Louis F. Knoepp, M.D.
Ann Arbor, Mich.: Paul Hodgson, M.D.
Atlanta, Ga.: J.C. Thoroughman, M.D.
Baltimore, Md.: R. F. Kieffer, Jr., M.D.
Batavia, N.Y.: John B. Perkins, M.D.
Bay Pines, Fla.: M. Joannides, Jr., M.D.
Boston, Mass.: Henry H. Faxon, M.D.
Brecksville, Ohio: R. A. Hemphill, M.D.
Brockton, Mass.: Arthur A. Tait, M.D.
Bronx, N.Y.: Philip Cooper, M.D.
Brooklyn, N.Y.: Robert Klopstock, M.D.
Buffalo, N.Y.: Wm. M. Chardack, M.D.
Butler, Pa.:
Castle Point, N.Y.: Richard Douglas, M.D.
Chicago, Ill. (West Side): M. I. Gibble, M.D.
Clarksburg, W. Va.: W. H. Gerwig, Jr., M.D.

Cleveland, Ohio: Robert E. L. Rochelle, M.D.
Columbia, S.C.: K. M. Lippert, M.D.
Coral Gables, Fla.: Mark W. Wolcott, M.D.
Dallas, Tex.: Robert H. Holland, M.D.
Dayton, Ohio: R. J. Ireton, M.D.
Dearborn, Mich.: Edward J. Nedwicki, M.D.
Des Moines, Iowa: Wendell S. Sharpe, M.D.; Louis T. Palumbo, M.D.
Durham, N.C.: R. W. Postlethwait, M.D.
East Orange, N.J.: L. Vaughan, M.D.; M. J. Small, M.D.
Fayetteville, Ark.: William J. Fink, M.D.
Fort Harrison, Mont.: K. J. Wright, M.D.
Fresno, Calif.: Kean Westphal, M.D.
Hot Springs, S. Dak.:
Houston, Tex.: G. L. Jordan, M.D.
Jackson, Miss.: J. H. Conn, M.D.
Kansas City, Mo.: Thomas Orr, M.D.
Kecoughtan, Va.:
Kerrville, Tex.: Joshua Seidel, M.D.
Lebanon, Pa.: H. Wassermann, M.D.
Little Rock, Ark.: B. W. Thompson, M.D.
Livermore, Calif.: E. J. Shabart, M.D.
Long Beach, Calif.: Joseph A. Weinberg, M.D.
Los Angeles, Calif.: John T. Burroughs, M.D.
Louisville, Ky.: Joseph E. Hamilton, M.D.
Memphis, Tenn.: Felix A. Hughes, M.D.
Minneapolis, Minn.: Donald Ferguson, M.D.
Montrose, N.Y.:
Nashville, Tenn.: W. G. Gobbel, Jr., M.D.
New Orleans, La.: Lyman Richardson, M.D.
New York, N.Y.: Harold Stern, M.D.
Oakland, Calif.: James Yee, M.D.
Oklahoma City, Okla.: G. S. Campbell, M.D.
Omaha, Nebr.: W. P. Kleitsch, M.D.
Oteen, N.C.: D. E. Smith, M.D.
Philadelphia, Pa.: Oscar Serlin, M.D.
Phoenix, Ariz.: H. Lieber, M.D.
Pittsburgh, Pa. (University Drive): Francis Jackson, M.D.
Portland, Oreg.: J. A. Aalpoel, M.D.
Providence, R.I.: Alvin N. Grenda, M.D.
Richmond, Va.: R. F. MacDonald, M.D.
Rutland Heights, Mass.: T. J. Enright, M.D.
Salt Lake City, Utah: W. K. Fitzpatrick, Jr., M.D.
San Fernando, Calif.: J. D. Steele, M.D.
San Francisco, Calif.: J. L. Wilson, M.D.
Shreveport, La.: John C. Crenshaw, M.D.
Spokane, Wash.: Max J. Allen, M.D.
Sunmount, N.Y.:
Syracuse, N.Y.: Lloyd S. Rogers, M.D.
Temple, Tex.: I. Epstein, M.D.
Togus, Maine: F. P. Turner, M.D.
Tuskegee, Ala.: J. Mark Cox, M.D.
Wadsworth, Kans.: Paul H. Guilfoil, M.D.

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Walla Walla, Wash.:
Washington, D.C.: George Higgins, M.D.
West Haven, Conn.: Carl J. May, M.D.
Wichita, Kans.: A. H. Hinshaw, M.D.
Wilkes-Barre, Pa.: Felix Feraru, M.D.
Wilmington, Del.:
Wood, Wis.: Wilson Weisel, M.D.

Air Force:
Scott AFB, Belleville, Ill.: Lt. Col. Edw. P. Smith (MC).
Travis AFB, Calif.: Maj. R. H. Hood (MC).
Maxwell AFB, Ala.: Lt. Col. Francis E. Foley (MC).
Lackland AFB, Tex.: Lt. Col. Daniel C. Campbell, Jr. (MC).

Army:
Fitzsimons Army Hospital, Denver, Colo.: Maj. Dean F. Winn (MC).

Navy:
Bethesda, Md.: Capt. Robert B. Brown (MC).
Chelsea, Mass.: Capt. Lewis L. Haynes (MC).
Great Lakes, Ill.: Capt. Shakeb Ede (MC).
Oakland, Calif.: Capt. Marvin L. Gerber (MC).
Portsmouth, Va.: Capt. Philip L. Nova (MC).
St. Albans, Long Island, N.Y.: Capt. Joseph J. Timmes (MC).
San Diego, Calif.: Capt. Joseph M. Hanner (MC).

(9) Techniques for Early Diagnosis of Lung Cancer

In cooperation with the American Cancer Society a 2-year interval is being devoted to gathering of data on chest X-ray surveys and sputum cytology in a selected group of 12,000 VA domiciliary residents. The screening techniques are to be repeated twice yearly during this interval. At present the second screening is well advanced.

Early diagnosis followed swiftly by adequate treatment is the current hope of decreasing the alarming mortality from lung cancer. A questionnaire on symptomatology is being utilized as a possible third technique for discovering of lung cancers which may develop in any patients in this group.

The VA hospitals and the principal investigators participating in this study are:

Bay Pines, Fla.: Alfred H. Lawton, M.D.
Biloxi, Miss.: Harry N. Waggoner, M.D.
Dayton, Ohio: Berkeley Slutzker, M.D.
Los Angeles, Calif.: Sydney Finegold
Martinsburg, W. Va.: Emil R. Swepston, M.D.
Wood, Wis.: Clarence H. Burnett, M.D.

Cytologists:
Dr. George Papanicolaou, Cornell University Medical College, N.Y.
Dr. Irena Koprowska, Hahnemann Medical College, Philadelphia, Pa.
Dr. John R. McDonald, Harper Hospital, Detroit, Mich.
Dr. William O. Umiker, VA Hospital, Ann Arbor, Mich.

Radiologist:
Dr. Bernard Kordan, University of Southern California, Los Angeles, Calif.

Consultant:
Dr. Fred J. Hodges, University of Michigan, Ann Arbor, Mich.
American Cancer Society:
Dr. Dean Davies, New York, N.Y.
Biostatistician:
Dr. Abraham M. Lilienfeld, Johns Hopkins University, Baltimore, Md.
VA Central Office:
Lyndon E. Lee, Jr., M.D., coordinator.

(10) Cancer Registry

As the veteran population ages the volume of cancer patients under VA supervision and care is increasing. This poses the obligation of closely following these individuals in order to afford the earliest and best treatments for each. Cataloging of cases in a form for ready reference, with many details of identification of patients and of specific neoplastic diseases, and with up-to-date clinical and histopathologic data provides invaluable information on the disease processes as well as patient service. The number of VA cancer patients insures that rare and less known types of neoplasms may be studied in sufficient volume to provide familiarity elsewhere and otherwise unavailable.

The central registry for the cancer admissions to VA hospitals cannot be considered a project in research, but is a necessary tool for administrative and clinical use. With special projects it may be used in research and educational efforts. The central registry for VA cancer patients was initiated at the beginning of 1958 with Research Service personnel providing the medical supervision, while the Division of Reports and Statistics provides the clerical and statistical support. All VA hospitals and domiciliaries are contributing case material to this registry; 120 hospitals are voluntarily registering 100 percent of cancers seen on their services while the remainder report on the special registry forms a mandatory sample of 20 percent of their cases. In the year 1958, the first for which full figures are available, 40,000 cancers were seen in patients in VA hospitals, all but a handful being in G. M. & S. hospitals. These include representation from all cancer types. As nearly as can be estimated 20,000 (or half these cancers) were newly diagnosed in 1958, the other half being readmissions from 1958 or previous year's "new" diagnoses, and multiple cancers in some patients. At any one moment presently, the best available estimate suggests 4,000 VA hospital beds are occupied by cancer patients.

Statistics and Records is developing a full report on the registered cases for 1958 while processing the massive volume of data which has accumulated during 1959. This Division will provide aid in processing reported data for staff seeking information on material from respective stations, or on diseases of special interest.

It will be recalled that the Veterans' Administration Cancer Registry has been developed to provide information for administrative, clinical, educational, and research use within the VA, as well as to provide statistics for the cooperative studies with the National Cancer Institute and other Federal and private agencies jointly evaluating cancer problems and treatment end results.

(11) Extra-VA Research—Cancer Chemotherapy

(*a*) *VA Cancer Chemotherapy Study Group*

This group was organized in 1956 to study the effects of selected chemotherapeutic compounds in the acute leukemias and solid tumors of adults. The solid tumors include primary carcinoma of the lung, malignant melanoma, Hodgkin's disease, and lymphosarcoma. The acute leukemias are evaluated from the standpoint of survival time, types and duration of hematological, partial and clinical remissions. Solid tumors are evaluated on the basis of changes of measurable tumor masses. Less than 20 percent of patients with solid tumors have measurable lesions. In selecting cases to date for this solid tumor study, it has been necessary to evaluate over 2,500 patients with the solid tumor types noted above.

1. Completed studies:

a. Acute leukemias.—This study was begun in September 1956 in order to evaluate the use of 6-chloropurine versus 6-mercaptopurine in the treatment of acute leukemia in adults. One hundred and fifteen patients were admitted to this study. The study was completed early in 1959. The data suggests that there is no significant difference in these two agents from the standpoint of survival time, types and duration of remissions. A preliminary report of this study was made at the Cancer Chemotherapy National Service Center (CCNSC) Conference on Experimental Clinical Cancer Chemotherapy, Washington, D.C., November 11–12, 1959.

b. Solid tumors.—The first study began on January 1, 1957, and was completed on August 30, 1957. This study compared the effectiveness of DON (6-diazo 5-oxo-L-Norleucine) as compared to nitrogen mustard. The details of this study were published in the Journal of the National Cancer Institute, February 1959.

2. Studies in progress:

a. Acute leukemias.—A new study was inaugurated in December 1959 utilizing some of the agents that the group has used in preliminary trials. These include cyclophosphamide and 6-mercaptopurine riboside either by oral or intravenous administration.

b. Solid tumors.—A study utilizing the same types of tumors and the same criteria of evaluation has been in progress since February 1959. This study compares the relative effectiveness of cyclophosphamide to nitrogen mustard. To date 86 patients have been admitted to this protocol.

3. Future studies:

The group has just completed a protocol for the study of chronic leukemias and multiple myeloma. The formal study was started in December 1959, utilizing some of the compounds that the group has evaluated in previous toxicity evaluation and application in selected cancer cases.

4. Phase I and II or dose response and tumor spectrum studies:

Patients with various tumor types not amenable to conventional methods of therapy were studied with a number of new cancer chemotherapeutic agents. These compounds were all passed and approved by the New Agents Committee and the Clinical Studies Panel of the Cancer Chemotherapeutic National Service Center and were used on their recommendations.

The number of patients evaluated

A-139	24	Mannitol mustard	127
NSC-1026	66	Cyclophosphamide	116
Tetramin	21	6-MP riboside	25
Nitromin (Oral)	7	5-FU	5

Cytoxan and 6-MP riboside were selected for further studies. The group has evaluated 391 patients in the above phase I and II studies. Expansion of this phase of the group activities is expected this year in order more rapidly to evaluate the great number of new compounds that are ready for clinical trial. The VA hospitals and the principal investigators participating in this group of studies are:

Atlanta, Ga.: Simon Krantz, M.D. (secretary).
Boston, Mass.: Richard W. Dwight, M.D.
Bronx, N.Y.: Julius Wolf, M.D.
Brooklyn, N.Y.: Paul W. Spear, M.D.
Cleveland, Ohio: Richard M. Whittington, M.D.
Coral Gables, Fla.: George Baum, M.D.
Durham, N.C.: Herbert Saltzman, M.D.
Manhattan, N.Y.: Robert S. Sullivan, M.D.
Memphis, Tenn.: Frank Dietrich, M.D.
Philadelphia, Pa.: Henry P. Close, M.D. (chairman).
Pittsburgh, Pa.: Arthur S. Glushien, M.D.
Pittsburgh, Pa.: William R. Merchant, M.D.

Statistician:
Mary Ellen Patno, Ph. D., University of Michigan, Ann Arbor, Mich.

VA Central Office:
Lyndon E. Lee, Jr., M.D., coordinator.

(*b*) *VA Lung Cancer Study Group*

The first study by this group of 14 hospitals was completed on February 17, 1959. The protocol was devised to establish on a definitive basis the effect of nitrogen mustard and the steroid hormones on patients with inoperable bronchogenic carcinoma so as to provide a firm basis for comparison with the newer cancerocidal drugs. The study was characterized by four distinguishing features:

1. No selection of patients; all who qualified were admitted to the study.
2. The large number of patients—540.
3. The use of a control group and the double-blind technique.
4. The proportion of patients surviving to a given day serving as parameter of measurement.

a. This was the first protocol in the national cancer chemotherapy program to administer drugs in a double-blind fashion with controls, and experience has justified the need for these methods in the evaluation of cancer chemotherapeutic agents. One advantage that appeared early was the ability to separate toxicity due to the malignant process from that due to drugs.

Of the 80 patients who received nitrogen mustard, 63 percent were alive at the end of 90 days as compared to 51 percent of those who received the inert compound and only 37 percent of the patients treated with cortisone. The experiences with the other drugs were in between, the two with progesterone being almost as bad as that with cortisone. There was no obvious explanation for the surprisingly deleterious effect of cortisone.

The median survival time for the nitrogen mustard treated group was 121 days, 56 days for the cortisone group, and 93 days for the patients receiving the inert compound.

The results of this study have been presented at the conference on the biological activity of steroids at Vergennes, Vt., at the experimental clinical cancer chemotherapy conference in Washington, D.C., and at the Veterans' Administration annual research conference in Cincinnati, Ohio. A manuscript has been submitted for publication.

b. The second study, begun immediately after the completion of the first, will be completed in February 1960 with approximately 600 patients. The increased number is due in part to the addition of VA hospital, Ann Arbor, Mich., to the group. The second protocol has included radiotherapy as one of the treatment regimens. The patients, all with inoperable lung cancer, are divided into two groups prior to randomization: localized disease and extensive disease. In the former group, patients are then randomized between radiotherapy, inert drug, nitrogen mustard, testololactone, testosterone propionate, and halotestin. Patients with extensive disease are randomized between the same drugs but not radiotherapy.

c. A protocol is complete and in February 1960 a third study will be begun with nitrogen mustard, chlorambucil, cyclophosphamide and corticosterone being used in addition to the inert drug and radiotherapy.

The principal investigators have also done preliminary evaluation studies on a variety of new agents. These include cyclophosphamide, 1-amino cyclopentane-1-carboxylic acid, 5-fluorouracil, 6-mercaptopurine riboside, streptovitacin A, AB–100, uracil mustard, tetramin, mitomycin C and miracil D.

The VA hospitals and the physicians participating in the study are:

Ann Arbor, Mich.: Robert A. Green, M.D.
Bronx, N.Y.: Julius Wolf, M.D. (chairman).
Brooklyn, N.Y.: Paul Spear, M.D.
Cleveland, Ohio: Samuel Lobe, M.D.
Dallas, Tex.: Russell H. Wilson, M.D.
East Orange, N.J.: H. A. Weiner, M.D.
Hines, Ill.: William J. Gillesby, M.D.
Long Beach, Calif.: Leroy Hyde, M.D.
Los Angeles, Calif.: Sydney M. Finegold, M.D.
Minneapolis, Minn.: Donald J. Ferguson, M.D.
Minneapolis, Minn.: Edward Humphrey, M.D.
Oakland, Calif.: James Yee, M.D.
Oteen, N.C.: H. E. Walkup, M.D.; D. E. Smith, M.D.
Philadelphia, Pa.: Henry P. Close, M.D. (secretary).
Richmond, Va.: Frank A. Wade, M.D.
West Haven, Conn.: Thomas Amatruda, Jr., M.D.

Radiotherapy panel:

Ann Arbor, Mich.: Robert Rapp, M.D.
Bronx, N.Y.: Bernard Roswit, M.D.
Brooklyn, N.Y.: Jerome Dubowy, M.D.
Cleveland, Ohio: Maurice Sachs, M.D.
Dallas Tex.: John T. Mallams, M.D.
East Orange, N. J.: Joseph R. Nahon, M.D.
Hines, Ill.: Frank Hussey, M.D.

Long Beach, Calif.: Bernard H. Feder, M.D.
Los Angeles, Calif: William A. Gore, M.D.
Minneapolis, Minn.: Norman Blank, M.D.
Oakland, Calif.: Lewis G. Jacobs, M.D.
Oteen, N.C.: Meyer Nimaroff, M.D.
Philadelphia, Pa.: George T. Wohl, M.D.
Richmond, Va.: Walter H. Mendel, M.D.
West Haven, Conn.: Chu H. Chang, M.D.

Pathology panel:
East Orange, N.J.: Oscar Auerbach, M.D.
Oakland, Calif.: Bruno Gerstl, M.D.
West Haven, Conn.: Raymond Yesner, M.D.

Statistician:
Mary Ellen Patno, Ph. D., University of Michigan, Ann Arbor, Mich.

VA Central Office:
Lyndon E. Lee, Jr., M.D.

(c) *Southwest Cancer Chemotherapy Study*

This is a cooperative study designed to evaluate new chemotherapeutic agents as they become available, by determining their effect upon leukemia, multiple myeloma, and the various solid tumors. In order to establish functional and practical methods of carrying out this purpose, original protocols were devised which utilized relatively well-known drugs before undertaking evaluation of the new agents.

Studies are directed to:

1. Chronic lymphocytic leukemia. A comparison of the effects of chlorambucil and radioactive phosphorus in the treatment of this disease. More than 106 patients have been admitted to the study, and it is nearing completion. A preliminary analysis of results is now being carried out, and an early publication should be forthcoming.

2. Chronic myelocytic leukemia. Comparison of the effects of myleran and 6-mercaptopurine. More than 51 patients have been included in this study. Results are now being subjected to preliminary analysis and a publication will eventually result.

3. Acute leukemia. a. A comparative evaluation of ACTH, hydrocortisone and cortisone used alone and in sequence to 6-Mercaptopurine. Fifty patients have been treated; b. the treatment of acute leukemia with cytoxan. The pediatric section is presently preparing a manuscript on this study.

4. Multiple myeloma. Since the treatment of multiple myeloma has been universally unsatisfactory, a variety of new agents are being tested, by a rapid screening method, for their effect upon this disorder.

5. Miscellaneous malignant tumors. A wide variety of new agents is being screened for beneficial effect on the various malignant tumors. These studies include:

a. Actinomycin D—Hemangioendothelioma, lymphosarcoma, hepatoma, Wilm's tumor, embryonal sarcoma, intracranial tumor.

b. NSC–1026—Acute granulocytic leukemia.

c. Carzinophilin—Acute leukemia, malignant melanosarcoma, fibrosarcoma.

d. Mannitol mustard (BCM)—Acute granulocytic leukemia, Hodgkin's disease, Wilm's tumor, lypmhoma, rhabdomyoscarcoma.

e. Miracil D—Multiple myeloma, lymphosarcoma-acute leukemia, acute leukemia.

f. Nartocine—Letterer-Siwe, rhabdomyosarcoma, malignant melanoma.

g. PAM—Acute granulocytic leukemia.

h. X-87—Multiple myeloma, Hodgkin's disease.

i. Chloroguine mustard—Ganglioneuroblastoma, neuroblastoma disseminated, undifferentiated carcinomatosis.

The evaluation committee for the Adult Leukemia Studies has developed a weighted point value system for measuring the parameters selected by the study panel for determining the response to therapy. This weighted point value system has been under study and revision for several months. It gives consistent high grades to those patients that are nonresponsive and low grades to those that are responding, with logical gradations for those falling in the partial remission category. The evaluation committee of the group has received permission to describe this method in a published paper, not as a report of response to treatment, but as a possible way of measuring such responses.

Five VA hospitals are collaborating in this study with seven other institutions, including the University of Texas Medical Branch, Galveston, Tex.; the M. D. Anderson Hospital and Tumor Institute, Houston, Tex.; the University of Texas Southwestern Medical School, Dallas, Tex.; Baylor University College of Medicine, Houston, Tex.; Tulane University School of Medicine, New Orleans, La.; the University of Arkansas Medical Center, Little Rock, Ark.; and Lackland Air Force Hospital, San Antonio, Tex.

The participating VA hospitals and the principal investigators in this study are:

Dallas, Tex.: Roger H. Unger, M.D.
Houston, Tex.: J. B. Rochelle, M.D.
Little Rock, Ark.: J. C. Davis, M.D.
Little Rock, Ark.: Harold R. Hipp, M.D.
New Orleans, La.: Howard A. Buechner, M.D.
Oklahoma City, Okla.: James F. Hammarsten, M.D.

Statistician:

Miss Eleanor MacDonald, M.D., Anderson Hospital, Houston, Tex.

VA Central Office:

Dr. Lyndon E. Lee, Jr., M.D., coordinator.

(*d*) *Western Cancer Chemotherapy Study Group*

The essential aims of the Western Cooperative Cancer Chemotherapy Study Group are:

1. To evaluate the relative toxicity of agents currently used in the treatment of myeloma, lymphomas, and chronic leukemias in practical therapeutic regimens.

2. To estimate and compare the dosage levels required to reduce the "mass" of tumors and to maintain such reduction.

3. To compare the effects of these agents on the functional status and survivorship of the patient, insofar as the number of available patients permits.

4. To examine relationships of certain antitumor effects, such as sustained depression of neutrocytosis, to functional improvement and survivorship.

A cooperative group, formed within the western group, for the study of Agents Useful in Solid Tumor, Dose Response and Tumor Spectrum Evaluation, has been formed and is presently functioning. This involves VA Hospitals, San Francisco (Fort Miley); Los Angeles (Wadsworth General); Portland; Seattle; and Salt Lake City, in addition to University of California School of Medicine, San Francisco; University of California School of Medicine, Los Angeles; University of Southern California, Los Angeles (Los Angeles General Hospital); and University of Washington School of Medicine, Seattle.

The western group has now arrived at that point in its existence that adequate numbers of patients have been studied in certain categories to permit statistical analysis of data. These papers are being and have been written and will be published in the very near future.

The group is presently engaged in writing new protocols, permitting larger numbers of patients to be studied. It is also expected that new agents may be added to the new protocols.

A complete listing of the participants in the Western Group is as follows:

VA hospitals:

Los Angeles, Calif.: James L. Scott, M.D.; Melvin Avedon, M.D.; Benjamin Fishkin, M.D.; Leo Fred, M.D.

Portland, Oreg.: Robert E. Mass, M.D., Leonard W. Ritzmann, M.D.

Salt Lake City, Utah: Harold Brown, M.D.; H. William Harris, M.D.

San Francisco, Calif.: Forrest M. Willett, M.D. (chairman); Thos. V. Feichtmeir, M.D.; Laurance V. Foye, Jr., M.D.

Seattle, Wash.: Robert S. Evans, M.D.; Alexander R. Stevens, Jr., M.D.

University Group Participants:

University of California, San Francisco, Calif.: David A. Wood, M.D.; Rose Papac, M.D.; Nicholas Petrakis, M.D.; William A. Skoog, M.D. (secretary); Calvin Zippin, M.D.; Paul Guttman, M.D.; William A. Atchley, M.D.; Stacey Mettier, M.D.; William M. Silliphant, M.D.

University of California, Los Angeles Medical Center, Los Angeles, Calif.: William S. Adams, M.D.; Charles G. Chapman, M.D.; David Plotkin, M.D.; Kenneth Matsumoto, M.D.

University of Southern California, Los Angeles, Calif.: Samuel I. Rapaport, M.D.; Jesse L. Steinfeld, M.D.

University of Oregon, Portland, Oreg.: Edwin E. Osgood, M.D.; Robert D. Koler, M.D.; Bernard Pirofsky, M.D.; Arthur J. Seaman, M.D.; Nelson R. Niles, M.D.

University of Utah, Salt Lake City, Utah: Maxwell M. Wintrobe, M.D.; George Cartwright, M.D.; Spencer Raab, M.D.; Arthur Haut, M.D.

University of Washington, Seattle, Wash.: Dennis M. Donohue, M.D.

Statistician:
Dr. William E. Reynolds, University of Washington, Seattle, Wash.
VA Central Office:
Dr. Lyndon E. Lee, Jr., coordinator.

(*e*) *University Surgical Adjuvant Cancer Chemotherapy Study*

Three VA hospitals, along with 28 university medical schools, are pooling the information on use of Thio-tepa and nitrogen mustard in patients who have resections of tumors in the hope of cure or palliation of carcinoma of the stomach, lung, colo-rectum, breast or ovary. This study is, in all respects, for the lung, stomach and colo-rectal cases, similar to the VA Surgical Adjuvant Study. Three VA hospitals, as indicated below, are contributing as coinvestigators in specific subgroup studies in this effort.

At the beginning of the study it was agreed that any publication of results would be a joint venture. As yet there have been no published reports of available data. However, a summary of the study plan was published in the Journal of the American Medical Association 167: 1710–1714, August 2, 1958.

The VA centers and physicians participating in this study are:
Dayton, Ohio: Richard J. Ireton, M.D. (lung subgroup)
Jackson, Miss.: J. Harold Conn, M.D. (gastric subgroup)
Los Angeles, Calif.: James S. Clarke, M.D. (gastric subgroup), chairman of VA Group
VA Central Office:
Lyndon E. Lee, Jr., M.D., coordinator.

(*f*) *VA Surgical Adjuvant Cancer Chemotherapy Study*

This study, utilizing the clinical resources of 22 hospitals, was initiated in the autumn of 1957. It was designed to test the effectiveness of time tested alkylating agents (nitrogen mustard and TSPA) given concomitantly with the surgical resection of the lung, stomach, and colo-rectum for cancer. Randomizatiton of cases between controls and treated is secured by an unbiased central mechanism. Because of the insuperable difficulty in predicting curability at the time of surgery, separate classifications are maintained for cases with "palliative" and without "curative" gross evidence of residual neoplasm at operation. These clinical designations are arbitrary and may well overlap.

At the outset the drug dosage was 0.4 milligram per kilogram for nitrogen mustard and 0.8 milligram per kilogram for TSPA, given in four divided increments. This is commonly regarded as safe, conventional dosage for these drugs. When the study had been in progress for several months it became apparent that the mortality rate within the first 30 days after operation was considerably higher in the drug treated cases than in the controls. The early mortality of controls was identical with that experienced in the same hospitals prior to institution of the study.

Pending more complete investigatiton of this unexpected observation, the administration of these drugs was stopped on June 30, 1958, and the study continued using a placebo, the nature of which was unknown to investigators. Early mortality of "treated" cases immediately fell to the control level. Critical review of records showed no explanation other than drug effect superimposed upon the stress of a

major operation for the discrepancy in 30-day mortality rates. In itself this has been a significant observation, even though it necessitated abandonment of this first phase of the study before the study had accumulated the desired and statistically significant number of cases. At this point the number of cases involved were:

	Screened	Entered in study	Surviving Oct. 15, 1959
Lung	367	187	98
Stomach	363	103	45
Colon	202	114	89

The surviving cases are being followed at 3-month intervals until their deaths. All have now been followed for 15 months or more. There is no statistically sound evidence to date that the adjuvant chemotherapy has had a favorable influence on survivorship.

In January 1959, a second phase of the study was begun, using only three quarters of the previous dosage and a double-blind technique of randomization. There has been no discrepancy in 30-day mortality rates between treated and control cases in this series. The new series already approximates the original one in size, but obviously no conclusions can be drawn as to results.

The VA hospitals and the principal investigators participating in this study are:

Boston, Mass.: Richard W. Dwight, M.D.
Bronx, N.Y.: Philip Cooper, M.D.
Brooklyn, N.Y.: Harry H. LeVeen, M.D.
Chicago, Ill. (Research): Fred W. Preston, M.D.
Cincinnati, Ohio: Alfred M. Keirle, M.D.
Cleveland, Ohio: Robert E. L. Rochelle, M.D.
Dallas, Tex.: John Paul North, M.D. (chairman)
Hines, Ill.: William J. Gillesby, M.D.
Houston, Tex.: George L. Jordan, Jr., M.D.
Iowa City, Iowa: Richard L. Lawton, M.D.
Kansas City, Mo.: Thomas G. Orr, Jr., M.D.
Long Beach, Calif.: Glenn A. Young, M.D.
Memphis, Tenn.: Felix A. Hughes, M.D.
Minneapolis, Minn.: Donald J. Ferguson, M.D.
Oakland, Calif.: John V. Smith, M.D.
Philadelphia, Pa.: Oscar Serlin, M.D.
Pittsburgh, Pa.: Francis C. Jackson, M.D.
Providence, R. I.: Harold W. Harrower, M.D.
San Juan, P.R.: Luis A. Passalacqua, M.D.
St. Louis, Mo.: Robert C. Donaldson, M.D.
Washington, D.C.: George A. Higgins, M.D.
Wood, Wis.: Miles B. Smith, M.D.
Subchairman Colo-Rectal Study, Boston, Mass.
Subchairman Gastric Study, Dallas, Tex.
Subchairman Lung Study, Memphis, Tenn.

Statistician:
Robert J. Keehn, biostatistician, National Research Council, National Academy of Sciences, Washington, D.C.

VA Central Office:
Dr. Lyndon E. Lee, Jr., coordinator.

(g) VA Prostate Cancer Chemotherapy Study Group

Carcinoma of the prostate is, at present, one of the most common malignancies in men. Despite this, statistics which will bear critical analysis of frequency and results of treatment are few, and in most series the number of patients studied is small or poorly controlled.

In view of these facts, this group felt that carcinoma of the prostate should be studied more exhaustively. A large, well-controlled group of cases, treated by strictly controlled and randomized methods of treatment with diagnostic studies centralized and subjected to rigid statistical direction, should aid in solving some of the problems involved in this disease. This same group of cases would also provide an opportunity to determine the true and relative effectiveness of the various methods of treatment of carcinoma of the prostate. At the same time, the relation between the gross and microscopic pathology, the biochemical and hormonal pattern of the patient, and the survival time of the patient is being sought in the hope that a valuable prognostic sign or signs might be determined. A protocol to serve as a guide in accomplishing this has been prepared. A central reference laboratory is established at VA Hospital, Minneapolis, and referee pathology services are in being under a VA pathologist at the Armed Forces Institute of Pathology. A referee radiologist is appointed at VA Hospital, Cincinnati. Actual clinical participation with patients is scheduled to start early in 1960.

The VA hospitals and the principal investigators participating in this study are:

Atlanta, Ga.: Earl Haltiwanger, M.D.
Cincinnati, Ohio: George Mellinger, M.D. (chairman)
Dallas, Tex.: Ralph Smith, M.D.
Des Moines, Iowa: Lino Arduino, M.D.
East Orange, N.J.: Maxwell Malament, M.D.
Long Beach, Calif.: Arthur Bischoff, M.D.
Manhattan, N.Y.: Hardy Ulm, M.D.
Minneapolis, Minn.: Roger Haglund, M.D.
Syracuse, N.Y.: William Parry, M.D.

Referee pathologist:
F. K. Mostofi, M.D., Armed Forces Institute of Pathology, Washington, D.C.

Biochemistry Laboratory:
Richard Doe, M.D., biochemist, VA hospital, Minneapolis, Minn.

Biometrician:
Edmund Gehan, M.D., biometrician, National Institutes of Health, Bethesda, Md.

Referee radiologist:
Erich Spiro, M.D., radiologist, VA hospital, Cincinnati, Ohio.

VA Central Office:
Lyndon E. Lee, Jr., M.D., coordinator.

(h) Midwest Cancer Chemotherapy Group

This group, which includes 18 institutions in the Midwest, was recently organized for rapid clinical evaluation of new antineoplastic agents utilizing patients and institutions not previously engaged in Cancer Chemotherapy Studies in these disease categories.

A study was started in September 1959 for evaluation of the comparative therapeutic and toxic effects of the purine antagonists, 6-mercaptopurine, thioguanine, and thioguanisine in acute leukemia. By December 1, 36 patients were on protocol from a total of 48 studied.

An additional protocol is being developed to evaluate the comparative toxic and therapeutic effects of cyclophosphamide and mechlorethamine in the treatment of Hodgkin's disease. This study will be underway shortly.

The VA hospitals and personnel participating in this group are—

Ann Arbor, Mich.: Donald R. Korst, M.D.

Hines, Ill.: William J. Donnelly, M.D.

Chicago, Ill. (Research): James W. Linman, M.D.

Minneapolis, Minn.: Paul S. Hagen, M.D. (VA group chairman)

Wood, Wis.: Bertram H. Dessel, M.D.

Statistician:

Richard Carter, Ph. D., Illinois Institute of Technology, Chicago, Ill.

VA Central Office:

Lyndon E. Lee, Jr., M.D., coordinator.

SECTION II

VA RESEARCH PROJECTS

Explanatory Statement

This report of Medical Research in the Veterans' Administration differs from its predecessors in that the short project descriptions which characterized the previous volumes have been dropped in favor of the inclusion of an extensive cross index. This substitution was made in order to increase the usefulness of the book without adding to its bulk.

This index, like that of last year's report, was made possible through the cooperation of all VA investigators in responding to new reporting procedures, and particularly through the special effort and complete cooperation of the Director and staff of the Bio-Sciences Information Exchange.

The parenthetical numeral at the end of each summary is the BSIE accession number for cross-identification of the project in the BSIE and VA Research Service files.

The practice of grouping the projects by stations, within each major disease category, is continued and each study is identified as to station of origin.

As in the previous report to the Congress, this section contains also a list of published articles resulting from VA studies.

Each research project description can be found in three or more entries in the index. They are indexed by State and city of the reporting hospital or clinic; by the subject category selected by the author-investigator; and in one or more cross references.

Key to Clinical and Scientific Specialty of Each Investigator

Air Hyg.	Air hygiene
Anat.	Anatomy
Anes.	Anesthesiology
Anthro.	Anthropology
Bact.	Bacteriology
Biophys.	Biophysics
Card.	Cardiology
Chem.	Chemistry (includes subspecialties)
Clin. Invest.	Clinical investigator (special VA program)
Coord.	Coordinator
Dent.	Dental
Derm.	Dermatology
Dietet.	Dietetics
ENT	Ear, nose, and throat
GI	Gastroenterology
Hemat.	Hematology
Hist.	Histology
Mcb.	Microbiology (includes subspecialties)
Med.	Medicine
Med. Ill.	Medical Illustration

MRL	**Medical Record Library**
Mycol.	**Mycology**
Neur.	**Neurology**
Neursurg.	**Neurosurgery**
Nurs.	**Nursing**
Oncol.	**Oncology**
Ophth.	**Ophthalmology**
Orth.	**Orthopedics**
Otolarng.	**Otolarngology**
Path.	**Pathology**
Pharm.	**Pharmacology**
Phy.	**Physiology**
Phys.	**Physician; physics**
PMR	**Physical medicine and rehabilitation**
Psychol.	**Psychology (includes subspecialties)**
Psychiat.	**Psychiatry**
Pulm. Dis.	**Pulmonary disease**
Radiol.	**Radiology**
Res. Assoc.	**Research associate**
RI	**Radioisotope**
Serol.	**Serology**
Sp. Serv.	**Special services**
Stat.	**Statistics**
Surg.	**Surgery**
SWS	**Social Work Service**
TB	**Tuberculosis**
Tech.	**Technician**
Tr.	**Trainee**
Univ.	**University (not a regular VA employee; i.e., consultant, medical student, etc.)**
Virol.	**Virology**
VM	**Veterinary medicine**

Titles Classified by Subject Category

1. Infectious Diseases

(a) Tuberculosis, all forms

1. Studies on Mechanism of the Streptomycin Reaction. II. Role of Phosphate in Potentiating the Effect of Dihydrostreptomycin on Culturability of *Escherichia coli*.

Charles Hurwitz, Ph. D., Ch. Gen. Med. Research Lab.; Richard A. Peabody, Ph. D., Ch. Chem. Sec., Gen. Med. Research Lab.; Carmen L. Rosano, M.S., Biochem., Gen. Med. Research Lab.; Albany, N.Y. (2024)

2. Studies on the Synthesizing Systems of Penicillin-induced Spheroplasts of *Escherichia coli*. II. Further Studies on Their Physiology and Biochemistry.

Charles Hurwitz, Ph. D., Ch. Gen. Med. Research Lab.; Bernard H. Koser, A.B., Biochem., Gen. Med. Research Lab.; Barbara A. Bean, B.A., Research Tech., Gen. Med. Research Lab.; Albany, N.Y. (2042)

3. Studies on the Mechanism of Action of Streptomycin. IV. Role of Streptomycin in Biosynthesis of Nucleic Acids and Proteins.

Charles Hurwitz, Ph. D., Ch. Gen. Med. Research Lab.; Richard A. Peabody, Ph. D., Ch. Chem. Sec., Gen. Med. Research Lab.; Bernard H. Koser, A.B., Biochem., Gen. Med. Research Lab.; Max D. Borski, M.S., Biochem., Gen. Med. Research Lab.; Albany, N.Y. (9272)

4. Studies on the Mechanism of Action of Streptomycin. V. Role of Inorganic Phosphate and 3-Phosphoglyceric Acid in Biosynthesis of RNA and Proteins by *Escherichia coli* Spheroplasts.

Charles Hurwitz, Ph. D., Ch. Gen. Med. Research Lab.; Richard A. Peabody, Ph. D., Ch. Chem. Sec., Gen. Med. Research Lab.; Albany, N.Y. (9273)

5. Investigation of the Factors Which Prevent the Appearance of Streptomycin Resistant Strains of *M. tuberculosis* Dihydrostreptomycin-treated Tuberculosis Guinea Pigs.

Charles Hurwitz, Ph. D., Ch. Gen. Med. Research Lab.; Albany, N.Y. (9274)

6. Bio-assay Techniques and Chemical Determination of Isoniazid Blood Levels.

R. D. Strickland, Ph. D., Research Biochem.; W. Hentel, M.D., Ch. Lab. Serv.; D. Gale, Ph. D., Bact.; Albuquerque, N. Mex. (2073)

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7. A Method for *In Vivo* Determination of *Mycobacterium tuberculosis* From Clinical Sources.

D. Gale, Ph. D., Bact.; W. Hentel, M.D., Ch. Lab. Serv.; A. Jack, Research Tech.; E. Lockhart, Research Tech.; Albuquerque, N. Mex. (2080)

8. Response of Mice to Inoculations of Both *Candida albicans* and *Mycobacterium tuberculosis*.

David Gale, Ph. D., Research Bact.; William Hentel, M.D., Ch. Lab. Serv.; Albuquerque, N. Mex. (2082)

9. An Inhibitor to the Growth of Tubercle Bacilli Isolated From Minced Mouse Livers.

D. Gale, Ph. D., Bact.; E. Lockhart, Research Tech.; Albuquerque, N. Mex. (2084)

10. The Pathogenicity of an Acid Fast Photochromogen.

D. Gale, Ph. D., Bact.; W. Hentel, M.D., Ch. Lab. Serv.; A. Jack, Research Tech.; Albuquerque, N. Mex. (2086)

11. Enhancement of Toxicity by Soluble Products of Tubercle Bacilli by Hog Gastric Mucin.

D. Gale, Ph. D., Bact.; E. Lockhart, Research Tech.; Albuquerque, N. Mex. (2087)

12. Significance of the Isolation of Skotochromogens for Hospitalized Patients.

D. Gale, Ph. D., Bact.; P. M. Fox, M.D., Asst. Radiol.; A. N. Longfield, M.D., Ch. Chest Serv.; Albuquerque, N. Mex. (9281)

13. The Diagnosis of Tuberculosis by Fluorescent Antibody Techniques.

D. Gale, Ph. D., Bact.; E. Lockhart, Research Tech.; Albuquerque, N. Mex. (9282)

14. Further Investigation on the Development of Atypical (Chromogenic) Variants of the H37Rv Strain of *M. Tuberculosis* Under the Influence of Antituberculosis Agents *In Vitro*.

Maurice S. Tarshis, Ph. D., Dir. TB Research; Alexandria, La. (2092)

15. Further Investigation on the Selective Activity of Fluid Thioglycollate Medium for Group Differentiation of *M. Tuberculosis*, Anonymous (Atypical) Acid-Fast Bacilli, and Saprophytic Mycobacteria.

Maurice S. Tarshis, Ph. D., Dir. TB Research; Alexandria, La. (9287)

16. Thioglycollate, Peroxidase, Neutral Red, Serpentine Cord, and Niacin Tests for Group Differentiation of *M. Tuberculosis*, Anonymous (Atypical) Acid-Fast Bacilli, and Saprophytic Mycobacteria.

Maurice S. Tarshis, Ph. D., Dir. TB Research; Alexandria, La. (9288)

17. A Study of Presumptive "Inactive" Tuberculosis: Prognosis and Management.

J. Richard Johnson, M.D., Ch. Pulm. Dis.; Ann Arbor, Mich. (2127)

18. Cross-Reactions between Hemagglutinating Antigens from *Candida Albicans*, Staphyloccus Aureus, and Old Tuberculin.

R. A. Vogel, Prin. Scient., Med. Research Lab.; M. T. Koger, Mycol., Med. Research Lab.; Atlanta, Ga. (2254)

19. Tuberculin and Candida Skin Tests in Animals Immunized with Tubercle Bacilli: Do such Animals give Positive Skin Tests to *Candida Albicans*?

R. A. Vogel, Prin. Scient., Med. Research Lab.; M. T. Koger, Mycol., Med. Research Lab.; Atlanta, Ga. (2258)

20. Studies on Bacteriophage in *Mycobacterium Tuberculosis*.

W. B. Redmond, Princ. Scient., TB Research; B. U. Bowman, Jr., Bact., TB Research; R. J. Gibson, Bact., TB Research; Atlanta, Ga. (2259)

21. Phage Studies on Atypical Mycobacteria.

W. B. Redmond, Prin. Scient., TB Research; D. M. Ward, Med. Biol. Tech., TB Research; Atlanta, Ga. (2260)

22. The Deoxyribonucleic Acid Content of Normal and Lysing Tubercle Bacilli.

W. B. Redmond, Prin. Scient., TB Research; R. J. Gibson, Bact., TB Research; Atlanta, Ga. (2261)

23. Isolation and Studies of Metabolic Mutants (Auxotrophs) of Tubercle Bacilli.

W. B. Redmond, Prin. Scient., TB Research; R. J. Gibson, Bact., TB Research; Atlanta, Ga. (2262)

24. TB-Isolation and Studies on Mutants of the D29 Phage.

William B. Redmond, Prin. Scien., TB Research; Robert J. Gibson, Bact., TB Research; Atlanta, Ga. (2263)

25. Studies on Bacteriophage in *Mycobacterium Tuberculosis:* Catalase and Hydrogen Peroxide in Mycobacteria.

William B. Redmond, Ph. D., Prin. Scien., TB Research Lab., VAH; Alma T. Walker, Ph. D., Research Assoc., Dept. Bact., Emory Univ.; Atlanta, Ga. (2266)

26. Studies on Temperate Bacteriophage in Non-pathogenic Mycobacteria.

W. B. Redmond, Prin. Scien., TB Research; B. U. Bowman, Jr., Bact., TB Research; R. J. Gibson, Bact., TB Research; Atlanta, Ga. (2267)

27. Isolation and Studies on Mutants of Non-Pathogenic Mycobacteria.

W. B. Redmond, Prin. Scien., TB Research; R. J. Gibson, Bact., TB Research, VAH; Jerome C. Cater, Research Asst., Dept. of Bact., Emory Univ.; Atlanta, Ga. (2268)

28. Isolation of and Subsequent Studies on Phage from Soil Active on Various Mycobacteria.

W. B. Redmond, Prin. Scien., TB Research Lab, VAH; Dorothy M. Ward, Med. Biol. Tech., TB Research Lab, VAH; Jerome C. Cater, Res. Asst., Dept. of Bact., Emory Univ.; Atlanta, Ga. (9596)

29. A Post-Hospital Follow-Up on Tuberculous Patients Discharged from the Hospital.

Jacob Jensen, M.D., Ch. PMR Serv.; Baltimore, Md. (2334)

30. Cardiac Catheterization in Pulmonary Disease.

Robert C. Duvall, M.D., Ch. Med. Serv.; Raymond J. Beasley, M.D., Asst. Ch. Med. Serv.; Baltimore, Md. (2340)

31. Genetic Implications of the Constant Pattern of INH Metabolism in Humans.

Joseph R. Gladue, M.D., Phys., Med. Serv., VAH; Keith Manley, M.D., Fellow in Med., Johns Hopkins Hosp.; Victor A. McKusick, M.D., Assoc. Prof. Med., Johns Hopkins Univ.; Patrick B. Storey, M.D., Dir. Prof. Serv., VAH; Baltimore, Md. (2342)

32. Clinical Evaluation of Surgical Therapy of Pulmonary Tuberculosis.

Richard F. Kieffer, Jr., M.D., Ch. Surg. Serv.; Baltimore, Md. (2343)

33. Relationships between Vitamin B_{12} Level and Vitamin B_{12} Binding Power of Tuberculous Patients.

Robert L. Davis, Sc. D., Biochem., Lab. Serv., VAH; Bacon F. Chow, Ph. D., Assoc. Prof., Johns Hopkins School Hygiene and Public Health; Baltimore, Md. (2354)

34. Discharge Planning for Tuberculous Patients with Chronic Positive Sputum.

Jean Dockhorn, M.S., S.W., Ch. Soc. Serv.; Baltimore, Md. (2358)

35. Cycloserine in the Treatment of Tuberculosis.

Patrick B. Storey, M.D., Dir. Prof. Serv.; Baltimore, Md. (2360)

36. Infectivity of Air from Tuberculosis Ward.

Francis O'Grady, M.D., Ch., Microbiol.—Air Hygiene, VAH; William F. Wells, B.S., Cons., Non-Med., Air Hygiene, and Research Assoc., Johns Hopkins School of Hygiene and Public Health; Cretyl C. Mills, M.S., Research Assoc., Johns Hopkins School of Hygiene & Public Health; Louise Sultan, M.D., Ward Phys., Med. Serv.; Richard L. Riley, M.D., Cons., Med. Serv.; Assoc. Prof. of Med., Johns Hopkins; Baltimore, Md. (2361)

37. Effect of Ultraviolet Irradiation on Tubercle Bacilli in the Air.

William F. Wells, B.S., Cons., Non-Med., Air Hygiene, and Research Assoc., Johns Hopkins School of Hygiene and Public Health; Richard L. Riley, M.D., Cons., Med Serv., and Assoc. Prof. Med., Johns Hopkins School of Hygiene and Public Health; Cretyl C. Mills, M.S., Research Assoc., Johns Hopkins Sch. of Hygiene & Public Health; Carl W. Coblenz, M. Mech. E., Mech. Engineer, U.S. Bureau of Standards; Francis O'Grady, M.D., Ch., Microbiol.—Air Hygiene, VAH; Baltimore, Md. (2362)

38. Histopathologic and Histobacteriologic Studies in Resected Lesions of Pulmonary Tuberculosis.

Walenty Nyka, M.D., Ch. Chem. Lab.; Baltimore, Md. (2363)

39. Some Biochemical Studies on Tuberculous Patients Receiving INH.

Jeng M. Hsu, Ph. D., Research Biochem., Lab. Serv., VAH; Robert C. Duvall, M.D., Ch. Med. Serv., VAH; Bacon F. Chow, Ph. D., Assoc. Prof., Johns Hopkins Sch. Hygiene and Public Health; Baltimore, Md. (2373)

40. Aerial Infectivity of Atomized Tuberculous Sputum.

Mary C. Riley, M.D., Asst. Phys., Johns Hopkins Hosp.; Cretyl C. Mills, M.S., Research Assoc., Johns Hopkins Sch. Hygiene & Public Health; Richard L. Riley, M.D., Cons., Med. Serv.; Assoc. Prof. Med., Johns Hopkins Sch. Hygiene & Public Health; William F. Wells, B.S., Cons., Non-Med., Air Hygiene; Research Assoc., Johns Hopkins Sch. Hygiene & Public Health; Francis O'Grady, M.D., Ch. Microbiol.—Air Hygiene, VAH; Baltimore, Md. (2374)

41. Tuberculostatic Effect of Drug-Containing Serum.

A. Murray Fisher, M.D., Cons., VAH, Assoc. Prof. Med., Johns Hopkins Univ.; Robert C. Duvall, M.D., Ch. Med. Serv.; Patrick B. Storey, M.D., Dir. Prof. Serv.; Baltimore, Md. (2378)

42. A Study of the Antimicrobial Effect of Kanamycin.

William S. Spicer, M.D., Attend. Phys., Med. Serv.; Robert C. Duvall, M.D., Ch. Med. Serv.; Fern B. Wittstadt, B.S., Bact.; Nathan Weinstock, M.A., Bacteriol.; Patrick B. Storey, M.D., Dir. Prof. Serv.; Baltimore, Md. (2379)

43. Relationship of Vitamin B_{12} Binding and Paper Electrophoresis Patterns in Tuberculous and Pregnant Humans.

Robert L. Davis, Sc. D., Biochem., Lab. Serv., VAH; Bacon F. Chow, Ph. D., Assoc. Prof., Johns Hopkins Sch. Hygiene & Public Health; Baltimore, Md. (2382)

44. Relation of Tuberculin Reaction to Serum Proteins.

Emidio A. Bianco, M.D., Ward Phys.; David Marine, M.D., Ward Phys.; Baltimore, Md. (2380)

45. Effect of Micro-environment of the Droplet Nucleus on Infectivity.

Francis O'Grady, M.D., Ch. Microbiol. Air Hygiene, VAH; Cretyl C. Mills, M.S., Research Assoc., Johns Hopkins Sch. of Hygiene & Pub. Health; Fern B. Wittstadt, A.B., B.S., Bact.; Baltimore, Md. (9293)

46. Recognition of Multiple Mycobacterial Infections by Microcolonial and Culture Techniques.

Francis O'Grady, M.D., M. Sc., Ch. Microbiol. Air Hygiene, VAH; Fern B. Wittstadt, A.B., B.S., Bact.; Baltimore, Md. (9294)

47. Identification of Patient Sources of Tubercle Bacilli.

Louise Sultan, Ward Phys.; Fern B. Wittstadt, A.B., B.S., Bact.; Richard L. Riley, M.D., Cons. Med. Serv. VAH, Assoc. Prof. Med., Johns Hopkins Univ.; Cretyl C. Mills, M.S., Research Assoc., Johns Hopkins Sch. of Hygiene & Pub. Health; Francis O'Grady, M.D., M. Sc., Ch. Microbiol. Air Hygiene, VAH; Baltimore, Md. (9295)

48. Demonstration of the Infective Particles in Airborne Tuberculosis.

Walenty Nyka, M.D., Ch. Clin. Lab.; Baltimore, Md. (9296)

49. Infection Immunity Conferred by Isoniazid-Resistant Organisms.

Lewis J. Griffith, Ph. D., Act. Ch. Lab. Serv.; Salvatore A. Denaro, M.S., Bact.; Batavia, N.Y. (2390)

50. Genetic Tagging of Mycrobacteria With a View to a Study of Origin of Variants.

Lewis J. Griffith, Ph. D., Act. Ch. Lab. Serv.; Salvatore A. Denaro, M.S., Med. Bact.; Batavia, N.Y. (2395)

51. A Continuing Study Correlating Tuberculous Pulmonary Morphology with Specimen Bacteriology and Clinical Course of the Disease.

John B. Perkins, M.D., Ch. Surg. Serv.; Lewis J. Griffith, Ph. D., Act. Ch. Lab. Serv.; Batavia, N.Y. (2400)

52. A Modified Membrane Filter Technic for Processing Specimens for Tubercle Bacilli Culture.

A. Richard Simone, Bact.; Bath, N.Y. (8644)

53. Exhibit: Mechanical Model for Demonstration of the Effect of Tuberculosis on Pulmonary Physiology.

Ben V. Branscomb, M.D., Act. Ch. Pulm. Phys. Lab.; Birmingham, Ala. (2600)

54. Surgical Treatment for Tuberculosis of the Lungs.

Richard A. Dillard, M D., Ch. Surg. Serv.; A. H. Russakoff, M.D., Cons. Chest Dis.; Rex Perkins, M.D., Cons. Thoracic Surg., VAH, Asst. Prof. Surg., Med. Coll. Ala.; Birmingham, Ala. (2618)

55. Early Pericardectomy in Treatment of Tuberculous Pericarditis.

R. A. Dillard, M.D., Ch. Surg. Serv.; Birmingham, Ala. (3566)

56. The Effect of Acute Pneumonic Tuberculosis on the Ventilatory Perfusion Ratio of the Lung.

Charles H. Crump, M.D., Ch. Chest Dis. Sect.; Birmingham, Ala. (9637)

57. Use of the Tilt-Table Simultaneously With the Electroencephalogram.

W. J. Friedlander, M.D., Ch. Epilepsy Cent.; Boston, Mass. (2720)

58. A Follow-up Study of the Adjustment of Patients with Unilateral Leg Amputations Who Have Received a Permanent Prosthetic Appliance from the Boston VA Hospital.

Arthur Thibodeau, M.D., Orth. Cons., VAH; Miss Kathleen Conley, Super. Clin. SW, VAH; Boston, Mass. (10285)

59. Cooperative Aphasia Recovery Study.

F. A. Quadfasel, M.D., Ch. Neur. Sect.; S. Tartakoff, M.D., Ch. Psychiat. & Neur. Serv.; H. Goodglass, Ph. D., Asst. Ch., Clin. Psychol.; R. W. Sparks, M.A., Super. Language Therapist; Boston, Mass. (10286)

60. The Effect of Ultra-Sonic Lesions of the Corpus Striatum on the Behavior of the Cat. (Part #1 The Caudate)

John J. Barry, Jr., Ph. D., Ch. Neur. Research Lab.; Boston, Mass. (10267)

61. Site of Lesion in Lead Paralysis.

Joseph M. Segarra, M.D., Staff Neur.; Norman Geschwind, M.D., Staff Neur.; Boston, Mass. (10268)

62. Signal—Background Differentiation by the Aphasic Patient.

Robert W. Sparks, M.A., Super. of Language Retraining; Boston, Mass. (10270)

63. Evaluation of Carotid Compression EEG Test.

W. J. Friedlander, M.D., Ch. Epilepsy Cent.; J. McBeath, M.D., Resident, Neur.; R. Winston, M.D., Resident, Neur.; Boston, Mass. (10292)

64. EEG "Sleep Spindle" Symmetry.

W. J. Friedlander, M.D., Ch. Epilepsy Cent.; Boston, Mass. (10293)

65. The Use of Intermittent Photic Stimulation as an Aid in Electroencephalographic Diagnosis.

W. J. Friedlander, M.D., Ch. Epilepsy Cent.; Boston, Mass. (10294)

66. Lung Resection—Function Loss.

David D. Gillespie, M.D., Cons. VAH, Asst. Prof. Med., Western Reserve Univ.; Roger A. Hemphill, M.D., Ch. Med./TB, VAH; Brecksville, Ohio (2819)

67. Lung "Membrane" Problems Studied by Oximetry and Gas Analysis.

David G. Gillespie, M.D., Cons. VAH, Asst. Prof. Med., Western Reserve Univ.; Roger A. Hemphill, M.D., Ch. Med./TB, VAH; Brecksville, Ohio (2820)

68. Intermittent Positive Pressure Studies—Bronchodilators.

David G. Gillespie, M.D., Cons., VAH, Asst. Prof. Med.; Western Reserve Univ.; Roger A. Hemphill, M.D., Ch. Med./TB, VAH; Brecksville, Ohio (2821)

69. Bronchospirometry—Rest and Exercise Air and Oxygen.

David G. Gillespie, M.D., Cons., VAH, Asst. Prof. Med., Western Reserve Univ.; Roger A. Hemphill, M.D., Ch. Med./TB, VAH; Brecksville, Ohio. (2822)

70. Lung Volume Studies.

David G. Gillespie, M.D., Cons., VAH, Asst. Prof. Med., Western Reserve Univ.; Roger A. Hemphill, M.D., Ch. Med./TB, VAH; Brecksville, Ohio. (2823)

71. Functional Changes After Pulmonary Decortication.

David G. Gillespie, M.D., Cons., VAH, Asst. Prof. Med., Western Reserve Univ.; Roger A. Hemphill, M.D., Ch. Med./TB, VAH; Brecksville, Ohio. (2824)

72. Thoracic Surgery Refusal—Tragic?

Wilfred S. Muir, M.D.; Sidney E. Wolpaw, M.D., Cons., VAH; Brecksville, Ohio. (2825)

73. Pathological Confirmation of Tuberculosis Bronchiectasis.

Roger A. Hemphill, M.D., Ch. Med./TB, VAH, Asst. Clin. Prof. Med., Western Reserve Univ.; Frank K. Harder, M.D., Ch. Lab., VAH; Brecksville, Ohio. (2826)

74. Ten Years Experience with Streptomycin; Eighth Cranial Nerve Study.

William F. Hulse, M.D., Cons., VAH, Clin. Instr. Otolaryng., Western Reserve Univ.; Roger A. Hemphill, M.D., Ch. Med./TB, VAH; Brecksville, Ohio. (2827)

75. Tuberculin Sensitivity Developing in an NP Tuberculosis Unit.

Emil Rothstein, M.D., Ch. NP TB; Gertrude Gould, R.N.; Brockton Mass. (2810)

76. Study of the Use of Cortico-Steroids in Pulmonary Tuberculosis.

D. J. Stone; Bronx, N.Y. (4526)

77. A Comparative Study of Media for the Isolation of Tubercle Bacilli.

Edith L. Duerr, Ph. D., Ch. Microbiol. Sect.; P. M. Johnson, B.S., Lab. Tech.; Milton Goldman, Lab. Tech.; Bronx, N.Y. (4571)

78. Disseminated Tuberculosis with Thrombocytopenia Purpura—Case Report.

Robert A. Green, M.D., Asst. Ch. Chest Sect., Med.; Robert Gomprecht, M.D., Asst. Ch. Cardiac Sect., Med.; Bronx, N.Y. (10072)

79. The Electrodermal Response as a Measure of Anxiety: The Relationship Between Anxiety and Simple Discrimination Learning.

Alan D. Karasik, Ph. D., Exper. Psychol. Tr.; Bronx, N.Y. (10097)

80. Femoral Nerve Injury and Repair.

Erich G. Krueger, M.D., Ch. Neurosurg. Sect.; W. G. Kintzing, M.D., Resident, Neurosurg. Sect.; Bronx, N.Y. (10098)

81. Multiple Neurofibromatosis and Meningiomatosis of the Central Nervous System.

Fritz Cramer, M.D., Attend. Cons. Neurosurg., VAH, Clin. Prof. of Neur. Surg., Columbia Univ.; Erich G. Krueger, M.D., Ch. Neur. Sect., VAH; Rose Fiol, M.D., Asst. Neuropath., Columbia Univ.; Bronx, N.Y. (10099)

82. Larger Volume Pantopaque Lumbar Myelography (Old title) "Clinical Aspects of Increasing Amounts of Pantopaque in Lumbar Myelography."

Harold Haft, M.D., Resident, Neurosurg. Sect.; Erich G. Krueger, M.D. Ch. Neurosurg. Sect.; Charles Weinstein, M.D., Assoc. Radiol.; Bronx, N.Y. (10100)

83. Elaboration of True Toxin from the Tubercle Bacillus.

Philip Schain, D. Sc., Ch. Clin. Lab.; Frank A. Mazzapica, B.S., Bact. Lab. Serv.; Irving Fein, B.A., Tech. Bact. Lab. Serv.; Brooklyn, N.Y. (2847)

84. Erythrocyte Glutamic-Oxaloacetic Transaminase Levels During Iso-Nicotinic Acid Hydrazide Therapy.

Martin Sass, M.S., Biochem.; Paul W. Spear, M.D., Ch. Med. Serv.; Brooklyn, N.Y. (2875)

85. Isolation of Factors in Diphtheria Antitoxin and Toxin Inhibitory to Mycobacterium Tuberculosis.

Philip Schain, D. Sc., Ch. Lab. Serv.; George Ostroff, M.A., Serol., Lab. Serv.; Milton H. Schrift, M.S., Microbiol., Lab. Serv.; Irving Fein, B.A., Bact. Tech., Lab. Serv., VAH; Brooklyn, N.Y. (2877)

86. The Regional Pattern of Pulmonary Circulation and Its Implication on the Localization of Pulmonary Pathology, Tuberculosis in Particular.

Robert Klopstock, M.D., Ch. Thoracic Surg. Sect.; Brooklyn, N.Y. (2899)

87. The Significance of the Residual "Open Negative Lesion" After Prolonged Chemotherapy.

Harry L. Katz, M.D., Ch. TB Sect.; Brooklyn, N.Y. (2922)

88. Reactivations of Tuberculous Disease in 300 Successive Surgical Resections Followed from One to Six Years.

Harry L. Katz, M.D., Ch. TB Sect.; Brooklyn, N.Y. (2923)

89. Para Amino Salicylic Acid Preparations and Blood Levels.

Harry L. Katz, M.D., Ch. TB. Sec.; Brooklyn, New York. (2924)

90. The Effects of the Addition of Steroids to Chemotherapy in Cases of Far Advanced Pulmonary Tuberculosis Showing Poor Response to Routine Treatment.

Annabel B. Miller, M.D., Ch. Pulm. Dis. Sec.; Buffalo, N.Y. (2973)

91. A New Liquid and Clear Agar Media for the Primary Isolation and Cultural Studies of *M. Tuberculosis* and a New Enzyme Digestion and Concentration Method of Tuberculous Material for Primary Isolation of Tubercle Bacilli.

Nat. M. Minsley, M.S., Bact.; Buffalo, N.Y. (2974)

92. A Differential Medium for Tubercle Bacilli.

Nat. M. Minsley, M.S., Bact., Lab. Serv.; Buffalo, N.Y. (9333)

93. Study of Electroencephalographic Reports in Space Expanding Lesions.

John F. McGowan, M.D., Neur.; Buffalo, N.Y. (9339)

94. A Report of Operation of the Rehabilitation Ward.

William W. Young, M.D., Ch. PMR Serv.; William C. Graham, M.A., Exec. Asst., PMR Serv.; Butler, Pa. (3029)

95. Identification of Abnormal Hemoglobins in Pulmonary Tuberculosis.

Florence S. Jenney, M.D., Ch. Lab. Serv.; Butler, Pa. (3032)

96. The Cause of Treatment Failure in Pulmonary Tuberculosis.

Florence S. Jenney, M.D., Ch. Lab. Serv.; Archibald C. Cohen, M.D., Ch. TB Serv.; Robert Landis, B.S., Bact.; Butler, Pa. (3036)

97. The Role of the Cytochrome Enzyme System in the Oxidative Metabolism of *M. Tuberculosis*.

Florence S. Jenney, M.D., Ch. Lab. Serv.; Robert Landis, B.S., Bact.; Butler, Pa. (3038)

98. Evaluation of Cause of Death in Pulmonary Tuberculosis.

Florence S. Jenney, M.D., Ch. Lab. Serv.; Butler, Pa. (3040)

99. Chemotherapy of Tuberculosis.

Archibald C. Cohen, M.D., Ch. TB Serv.; Florence S. Jenney, M.D., Ch. Lab. Serv.; Butler, Pa. (3043)

100. The Effectiveness and Toxicity of Large Doses of Cycloserine in the Treatment of Pulmonary Tuberculosis.

Archibald C. Cohen, M.D., Ch. TB Serv.; Ingeborg Dross, M.D., Phys., TB Serv.; Butler, Pa. (9331)

101. Punch Card Recording System For Research Program.

Arthur Nathan, M.D., Ch. TB Serv.; Castle Point, N.Y. (3576)

102. Punch Card Recording System For Cases of Thoracic Surgery.

Richmond Douglass, M.D., Ch. Surg. Serv.; Daniel A. Mulvihill, M.D., Cons. Thoracic Surg.; Castle Point, N.Y. (3581)

103. Fluoroscopic Spot Work For The Demonstration Of Small Tuberculous Cavities.

Arthur J. Bendick, M.D., Ch. Radiol. Serv.; Castle Point, N.Y. (3582)

104. A Study of Serum Protein Paper Electrophoretic Patterns in Pulmonary Tuberculosis.

Herman Weissman, M.D., Asst. Ch. TB Serv.; Castle Point, N.Y. (3583)

105. The Demonstration of Tubercle Bacilli from Surgical Resections Washed and Unwashed Specimens.

Charles J. Feldman, Ph. D., Microbiol.; Castle Point, N.Y. (3585)

106. Streptomycin Local Tolerance Study.

Arthur Nathan, M.D., Ch. TB Serv.; Castle Point, N.Y. (8693)

107. Correlation of Bacteriological Findings, Including Viability of the Bacilli, and Morphology Observed in Resected Lung Specimens.

Anna V. Popoff, M.D., Ch. Lab. Serv.; Charles J. Feldman, Ph. D., Microbiol.; Castle Point, N.Y. (8694)

108. Histochemical Demonstration of Hyaluronic Acid in Relation to Spreading Factor in Resected Lung Specimens and Experimental Tuberculosis in Animals.

Anna V. Popoff, M.D., Ch. Lab. Serv.; Castle Point, N.Y. (8695)

109. Study of the Effect of Isoniazid (INH) on Catalase Production in Micrococcus Lysodeikticus.

John Der Hovanesian, Biochem. Lab. Serv.; Castle Point, N.Y. (8916)

110. Effect of Exercise on Experimental Tuberculosis In Guinea Pigs.

Arthur Nathan, M.D., Ch. TB Serv.; Castle Point, N.Y. (9401)

111. Tuberculin Testing in Mental Hospitals.

David W. Levin, M.D., Ch. NP–TB Serv.; Coatesville, Pa. (3194)

112. Resistance Studies of Tubercle Bacilli to Various Drugs (Isonicotinic Acid Hydrazide, Pyrazinamide, Streptomycin, p Amino Salicylic Acid and Cycloserine).

Jack Reiss, M.D., Ch. Pulm. Dis. Sec.; Samuel M. Townsend, M.S., Bact.; Coral Gables, Fla. (3241)

113. Post-Hospital Outpatient Treatment of Pulmonary Tuberculosis by Prolonged Chemotherapy: A Study of Relapse Rate.

Morris Dressler, M.D., Ch. Outpatient Chest Clinic; Coral Gables, Fla. (8506)

114. Use of Neotetrazolium as a Color Indicator in Sensitivity Studies of Tubercle Bacilli—Applied to Micro-Sensitivity Technique.

Jack Reiss, M.D., Ch. Pulm. Dis. Sec.; Samuel M. Townsend, M.S., Bact.; Coral Gables, Fla. (8512)

115. Development and Extension of the Technic of Body Plethysmography and Study of Pulmonary Physiology in Patients of Old Age Who Appear to be Normal.

Russell H. Wilson, M.D., Ph.D., Asst. Dir. Prof. Serv. Research; Delmar O. Shields, M.D., Ch. Chest Dis. Serv.; Dallas, Tex. (3294)

116. A Study of the Pathogenesis of Tuberculosis Using Hela Cell in Tissue Culture.

Robert S. Meador, M.D., Asst. Ch. Chest Disease Serv.; Delmar O. Shields, M.D., Ch. Chest Disease Serv.; James W. Finney, M.S., Ch. Research Microbiol.; Dallas, Tex. (3328)

117. Study of Mycolic Acid in Tissue Exudate.

Ben Friedman, M.D., Ch. Med. Serv.; Dale A. Clark, Ph. D., Biochem. Gen. Med. Research; Dallas, Tex. (8776)

118. Biologic Assay of INH in Serum.

James L. Tong, Ph. D., Ch. TB Research,; Dorothy Shimp, Research Tech.; Denver, Colo. (9437)

119. A Comparison of Psychiatric Conditions of NP–TB Patients Treated with Isoniazid (INH) and Those Not Treated with Isoniazid for TB.

Robert P. Barrell, Ph.D., Clin. Psychol.; Downey, Ill. (3846)

120. Clinical Studies in the Efficacy of Cycloserine in the Treatment of Pulmonary Tuberculosis.

H. O. Sieker, M.D., Asst. Ch. Med. Serv.; A. D. Cooper, M.D., Attend. VAH, Instr. Med., Duke Univ.; Durham, N.C. (3889)

121. A Study of the C-reactive Protein Test in the Evaluation of the Activity of Tuberculous Infections.

H. O. Sieker, M.D., Cons., VAH, Assoc. Prof. Med., Duke Med. Center; B. F. Andrews, Med. Stud., Duke Med. Center; Jane Kelly, A.B., Med. Tech., VAH; Durham, N.C. (3893)

122. Tuberculous Pericarditis.

R. W. Postlethwait, M.D., Ch. Surg. Serv., VAH; James W. Wilson, M.D., Asst. Resid. Surg., Duke Med. Center; Marcus L. Dillon, M.D., Asst. Ch. Surg. Serv., VAH; M. H. Salem, M.D., Resid. Surg., VAH; Durham, N.C. (3914)

123. The Tuberculin Test in the Diagnosis of Clinical Tuberculosis.

William W. Johnson, B.S., Med. Stud., Duke Med. Center; Herbert A. Saltzman, M.D., Ch. Pulm. Serv., VAH; David T. Smith, M.D., Prof. Bact., Duke Med. Center; J. Harned Bufkin, Med. Record Librarian, Duke Med. Center; Durham, N.C. (9503)

124. A Study of Serum Gamma Globulins and Polysaccharides in Pulmonary Tuberculosis Bronchogenic Carcinoma and Other Pulmonary Diseases.

Maurice J. Small, M.D., Ch. T.B. Serv.; East Orange, N.J. (4029)

125. Paper Electrophoresis of Pleural Fluid and Serum in Tuberculous and Malignant Pleural Effusions.

Maurice J. Small, M.D., Ch. TB Serv.; East Orange, N.J. (8624)

126. A Demographic Study of Regular Versus Irregular Discharges from a Tuberculosis Hospital.

Jonathan Cummings, Ph. D., Staff Psychol.; Hines, Ill. (4290)

127. Drug Susceptibility Studies.

Clifton J. Woods, M.S., Bact.; Albert Bordain, Med. Biol. Tech.; Hines, Ill. (4296)

128. Catalase Activity in Relation to Isoniazid Susceptibility and Resistance.

Clifton J. Woods, M.S., Bact., Research Serv.; Hines, Ill. (4300)

129. Preparation of Asparaginase from Mycobacteria.

John L. Ott, Ph. D., Bact.; Clifton J. Woods, M.S., Bact.; Charlotte A. Colwell, Ph. D., Bact.; Hines, Ill. (4303)

130. Oxidation of Various Members of the Tricarboxylic Acid Cycle by Cell-Free Preparations of Mycobacteria.

John L. Ott., Ph. D., Bact.; Hines, Ill. (4304)

131. Enzyme Activity in Mononuclear Cells from Animals of Varying Resistance to Tuberculosis.

Charlotte A. Colwell, Ph. D., Bact., Research Serv.; Adeline R. Hess, M.S., Bact. Research Serv., VAH; Militza Tavaststjerna, B.S., Research Asst., Dept. of Biochem., Northwestern Univ. Med. Sch.; Hines, Ill. (4306)

132. Lysozyme Activity in Rat and Guinea Pig Mononuclear Cells.

Charlotte A. Colwell, Ph. D., Bact., Research Serv.; Adeline R. Hess, M.S., Bact., Research Serv.; Hines, Ill. (4307)

133. Studies of pH Optima and Velocities of Reaction of Phosphatases from Mononuclear Cells.

Charlotte A. Colwell, Ph. D., Bact., Research Serv.; Adeline R. Hess, M.S., Bact., Research Serv.; Hines, Ill. (4308)

134. Biuret Protein and Total and Non-Protein Nitrogen Content of Mononuclear Cells.

Charlotte A. Colwell, Ph. D., Bact., Research Serv.; Adeline R. Hess, M.D., Bact., Research Serv.; Hines, Ill. (4309)

135. Lipase Activity of Mononuclear Cells.

Charlotte A. Colwell, Ph. D., Bact., Research Serv., VAH; Militza Tavaststjerna, B.S., Research Asst., Dept. of Biochem., Northwestern Univ. Med. Sch.; Hines, Ill. (4310)

136. Fractionation Procedures for the Purification of Asparaginase from Cell-free Extracts of Mycobacteria.

John L. Ott., Ph. D., Bact., Research Serv.; Hines, Ill. (4312)

137. Tributyrinase Activity of Rat and Guinea Pig Mononuclear Cells.

Charlotte A. Colwell, Ph. D., Bact., Research Serv., VAH; Militza Tavaststjerna, B.S., Research Asst., Dept. of Biochem., Northwestern Univ. Med. Sch.; Adeline R. Hess, M.S., Bact., Research Serv., VAH; Hines, Ill. (4322)

138. Beta-Glucuronidase Activity of Rat and Guinea Pig Mononuclear Cells.

Charlotte A. Colwell, Ph. D., Bact., Research Serv., VAH; Militza Tavaststjerna, B.S., Research Asst., Dept. of Biochem., Northwestern Univ. Med. Sch.; Adeline R. Hess, M.S., Bact., Research Serv., VAH; Hines, Ill. (4323)

139. Studies on the Effect of Rat and Guinea Pig Mononuclear Cells on the Growth of *Mycobacterium Tuberculosis* H37Ra in Culture Media.

Charlotte A. Colwell, Ph. D., Bact., Research Serv.; Adeline R. Hess, M.S., Bact., Research Serv.; Hines, Ill. (4324)

140. Studies on the Effect of Rat and Guinea Pig Mononuclear Cells on the Growth of *Mycobacterium Tuberculosis* H37Ra in Culture Media.

Charlotte A. Colwell, Ph. D., Bact., Research Serv.; Adeline R. Hess, M.S., Bact., Research Serv.; Hines, Ill. (4324)

141. Stoichiometry of Asparaginase Reaction in Mycobacteria.

John L. Ott, Ph. D., Bact., Research Serv., VAH; James R. Greco, B.S., Research Asst., Dept. of Biochem., Northwestern Univ. Med. Sch.; Charlotte A. Colwell, Ph. D., Bact., Research Serv., VAH; Hines, Ill. (4325)

142. The Effect of Gibberellins on the Growth and Metabolism of Mycobacteria.

Charlotte A. Colwell, Ph. D., Bact., Research Serv.; Adeline R. Hess, M.S., Bact., Research Serv.; Hines, Ill. (10315)

143. The pH Within Mononuclear Peritoneal Cells of Animals of Divergent Susceptibility to Tuberculosis.

Charlotte A. Colwell, Ph. D., Bact., Research Serv.; Adeline R. Hess, M.S., Bact., Research Serv.; Hines, Ill. (10316)

144. Study of Friedlander's Pneumonia.

William T. Lampe II, M.D., Resident, Med. Serv.; Hines, Ill. (10336)

145. To Determine Effect of High Isoniazid Doses Used with PAS on Serum Isoniazid Levels.

Clifton J. Woods, B.S., Bact.; Albert G. Bordain, Med. Tech.; Charlotte A. Colwell, Ph. D., Bact.; Hines, Ill. (10383)

146. Diffusibility of Tuberculin in Normal, Tuberculosis, and Boeck's Sarcoid Patients.

Hugh D. Bennett, M.D., Ch. Med. Serv.; Mary C. Morgan, M.D., Ch. RI Serv.; Samuel R. Lerner, Ph. D., Asst. Ch. Scien. RI Serv.; Houston, Tex. (4460)

147. Influence of Various Modes of Therapy on Long-term Relapse Rates in Pulmonary Tuberculosis.

Aaron A. Sprong, M.D., Ch. NP-TB Sect.; Irving Chofnas, M.D., Ch., Pulm. Disease Sect., VAH; D. E. Jenkins, M.D., Cons. VAH, Prof. of Pulm. Disease, Baylor; P. O. Jones, M.D., Attend. Phys., VAH, Asst. Prof. of Med., Baylor; George E. Granville, M.D., Ch. Endocrin. Sect., VAH; O. Doak Raulston, Med. Student, Baylor; Houston, Tex. (8799)

148. Chromogenic Acid-Fast Bacilli as a Cause of Pulmonary Disease.

Irving Chofnas, M.D., Ch. TB Sect.; Béla Halpert, M.D., Ch. Lab. Serv.; Frances Whitcomb, M.S., Microbiol.; John R. Norman, M.D., Resident; Jean Newton, M.D., Staff Phys.; Houston, Tex. (10964)

149. The Pulmonary Circulation in Pulmonary Tuberculosis: Cinefluorographic and Physiologic Study.

Roy H. Behnke, M.D., Ch. Med. Serv.; Ralph C. Wilmore, M.D., Asst. Ch. Pulm. Dis.; Indianapolis, Ind. (4788)

150. Evaluation of Anti-Tuberculous Compound 16726.

Frank L. Jennings, M.D., Ch. Pulm. Disease Sect.; Ralph C. Wilmore, M.D., Asst. Ch. Pulm. Disease Sect.; Indianapolis, Ind. (10899)

151. Tuberculous Pericarditis.

Pasquale D. Genovese, M.D., Asst. Ch. Med. Serv.; Robert J. Marvel, M.D., Staff Phys.; Indianapolis, Ind. (10900)

152. Survey Study of the Occurrence of Fibrocystic Disease in Adults.

Isaac Horowitz, M.D., Ch. TB. Sect.; Harold Zenisek, M.D., Resident Phys., Med. Serv.; Iowa City, Iowa. (4850)

153. Experimental Bone Tuberculosis and Therapy.

Earl M. Berglund, B.S., Bact. Lab. Serv.; Isaac Horowitz, M.D., Ch. TB Sect.; Iowa City, Iowa. (9580)

154. The Effect of Skin Testing for Histoplasmosis, Blastomycosis and Coccidiomycosis on the Antibody Response.

John F. Busey, M.D., Ch. Med. Serv.; Guy C. Campbell, M.D., Med. Serv.; Jackson, Miss. (10901)

155. Comparison of Serum Proteins in Sarcoidosis and Atypical Tuberculosis.

C. Fred McCuiston, M.D., Dir. Spec. Sarcoidosis Clinic; Paul C. Hudgins, Research Biol., VAO; Jacksonville, Fla. (10920)

156. Mechanism of Tuberculostatic Action of Para-Aminosalicylic Acid.

Loyd W. Hedgecock, Ph. D., Research Bacteriol., Research Lab.; Kansas City, Mo. (4966)

157. Nutrition in Experimental Tuberculosis.

Loyd W. Hedgecock, Ph. D., Research Bacteriol., Research Lab.; Kansas City, Mo. (4967)

158. Search for Improved Methods of Digesting and Decontaminating Clinical Specimens from Tuberculosis Patients.

Loyd W. Hedgecock, Ph. D., Research Bact., Research Lab.; Isabel O. Faucher, B.A., Bact.; Kansas City, Mo. (4968)

159. The Effect of Vanadium on Experimental Tuberculosis.

Richard L. Costello, M.A., Bact., Dept. of Microbiol., Univ. of Kansas Grad. Sch., Kansas City, Kans.; Loyd W. Hedgecock, Ph. D., Research Bact., Research Lab.; Kansas City, Mo. (4969)

160. Immunological Relationships of *M. Tuberculosis* and *H. Capsulatum.*

Robert G. Garrison, Ph. D., Bact.; Loyd W. Hedgecock, Ph. D., Research Bact., Research Lab.; Kansas City, Mo. (9602)

161. Histoplasmosis Case Finding Technique: Serological Tests.

Charles E. Andrews, M.D., Ch. Med. Serv.; Kansas City, Mo. (9603)

162. Air Embolus Study.

George A. Higgins, M.D., Ch. Surg. Serv.; Kansas City, Mo. (9604)

163. Secretion in the Saliva of the Antigens of the A.B.O. System in Tuberculosis.

John A. Carswell, M.D., Ch. Pul. Dis. Serv.; Lorenza Teague, Med. Tech.; Kerrville, Tex. (5018)

164. Investigation of Androgenic and Estrogenic Hormone Excretion as Related to Prostatic Hypertrophy and to Normal Sized Prostates in the Older Age Group.

William E. Bell, M.D., Urol.; Norman F. Poole, Biochem.; Arthur E. Meyer, Cons. Biochem.; Kerrville, Tex. (10965)

165. Clinical Evaluation of Individual Metabolism of Isoniazid Using the Modified Chemical Method of Poole & Meyer.

John A. Carswell, M.D., Ch. Pulm. Disease Serv.; Norman F. Poole, Biochem.; Kerrville, Tex. (10968)

166. Influence of Antituberculosis Drugs on the Metabolism, Enzyme Content, and Pharmacological Reactivity of Individual Organs and Tissues in Healthy Animals.

J. Warren Jackson, M.D., Ch. Lab. Serv.; Norman F. Poole, Biochem.; Arthur E. Meyer, Cons. Biochem.; Kerrville, Tex. (5006)

167. Influence of Antituberculosis Drugs on Serum Protein Pattern in Healthy Animals.

J. Warren Jackson, M.D., Ch. Lab. Serv.; Norman F. Poole, Biochem.; Arthur E. Meyer, Cons. Biochem.; Kerrville, Tex. (5007)

168. Serum Protein Pattern Studies of Tbc. Patients Under Chemotherapy by Paper Electrophoresis.

John A. Carswell, M.D., Ch. Pulm. Disease Serv.; Norman F. Poole, Biochem.; Kerrville, Tex. (5014)

169. Detecting Early Cases of Liver Damage in Tuberculosis Patients on Pyrazinamide Chemotherapy by the Serum Transaminase Determination.

John A. Carswell, M.D., Ch. Pulm. Disease Serv.; Norman F. Poole, Biochem.; Kerrville, Tex. (5015)

170. The Effect of Liver of Kidney Disease on the Blood Level and Urinary Excretion Level of Free or Unchanged Isoniazid by Animal Studies.

John A. Carswell, M.D., Ch. Pulm. Disease Serv.; Norman F. Poole, Biochem.; Arthur E. Meyer, Cons. Biochem.; Kerrville, Tex. (5016)

171. Identification of Protein Bound Isoniazid by Paper Electrophoresis and Chromotography.

John A. Carswell, M.D., Ch. Pulm. Dis. Serv.; Norman F. Poole, Biochem.; Kerrville, Tex. (5017)

172. Comparison of Isonicotinic Acid Hydrazide (Isoniazid) with Nicotinic Acid as to Their Hypocholesterolemic Effect.

Norman F. Poole, Biochem.; Arthur E. Meyer, Cons. Biochem.; Kerrville, Tex. (10966)

173. Influence of Various Agents on Atherosclerosis in Rabbits Produced by Various Diets Containing Saturated Fats With and Without the Addition of Cholesterol.

Norman F. Poole, Biochem.; Arthur E. Meyer, Cons. Biochem.; Kerrville, Tex. (10967)

174. The Comparison and Evaluation of Modified Chemical Method for Determination of Isoniazid in Serum (Poole & Meyer) with Microbiological Assay.

Norman F. Poole, Biochem.; Arthur E. Meyer, Cons. Biochem.; Kerrville, Tex. (10969)

175. Estimate of Rate of Recurrence of Post-hospital TB Follow-up Cases in Nebraska.

John G. Clothier, M.D., Ch. Prof. Serv.; Lincoln, Nebr. (6360)

176. Use of Zephrian-TSP Concentration Method with Liquid Medium in Isolation of *M. Tuberculosis*.

Robert A. Patterson, M.A., Bact.; Lincoln, Nebr. (6366)

177. Limited Modifiability of Emotional Responses.

Oddist D. Murphree, Ph. D., Prin. Scient. NP Research; Little Rock, (No. Little Rock Div.) Ark. (10176)

178. Analysis of the Incidence of *Mycobacterium Tuberculosis* Contamination of Soiled Linen and Beddings Used by Tuberculosis Patients.

Juan A. Arcellana, M.D., Path.; Livermore, Calif. (5099)

179. The Virulence of Isoniazid-Resistant Tubercle Bacilli Recovered from Patients on a High Isoniazid Regimen: Clinical, Electrophoretic and Bacteriological Studies.

Harris J. Mark, Research Bact.; Paul G. Thode, M.D., Staff Phys.; Livermore, Calif. (5101)

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180. The Use of Paper Electrophoresis as a Prognostic Aid in Major Surgery, with Special Emphasis in the Surgery of Pulmonary Tuberculosis.

J. Roberts Harrower, Prin. Scien. and Research Biochem.; Elmer J. Shabart, M.D., Ch. Surg. Serv., and Asst. Dir. Prof. Serv. for Research; Livermore, Calif. (5104)

181. Metabolism of the Tubercle Bacillus.

Harris J. Mark, Research Bact.; J. Roberts Harrower, Prin. Scien. and Research Biochem.; Livermore, Calif. (5105)

182. Observations on Patients Discharged with Pulmonary Cavities and Sputa Negative for Acid-Fast Bacilli.

Maurice L. Becker, M.D., Ch. TB Serv.; John C. McEwen, M.D., Staff Phys.; Livermore, Calif. (5108)

183. The Kahn Universal Reaction in Tuberculosis with Correlation to Sedimentation Rate and C-Reactive Protein Antigen Reaction.

Victor A. Forey, Super. Tech., Clin. Lab.; Juan A. Arcellana, M.D., Ch. Lab. Serv. and Clin. Path.; Livermore, Calif. (5109)

184. Effect of Antibiotics on Healing of Non-Tuberculous Ulcers.

Juan A. Arcellana, M.D., Ch. Lab. Serv. and Clin. Path.; Jack L. Wallace, Bact., Clin. Lab.; Livermore, Calif. (5110)

185. Chromogenic Acid-Fast Bacilli Isolated from Patients with Tuberculosis.

Jack L. Wallace, Bact., Clin. Lab.; Juan A. Arcellana, M.D., Ch. Lab. Serv. and Clin. Path.; Victor A. Forey, Super. Tech., Clin. Lab.; Livermore, Calif. (5113)

186. Antistreptolysin "O" Titers in Tuberculosis.

Jack L. Wallace, Bact. Clin. Lab.; Livermore, Calif. (5114)

187. The Hemagglutination Test and Its Hemolytic Modifications.

Jack L. Wallace, Bact. Clin. Lab.; Walter B. Brown, M.D., Dir. Prof. Serv.; Livermore, Calif. (5115)

188. Effects of Antibiotics on *Mycobacterium Tuberculosis*.

Jack L. Wallace, Bact. Clin. Lab.; Juan A. Arcellana, M.D., Ch. Lab. Serv. and Clin. Path.; Victor A. Forey, Super. Tech. Clin Lab.; Livermore, Calif. (5116)

189. The Membrane Filter Culture Technique for Tubercle Bacilli.

Harris J. Mark, Research Bact.; J. Roberts Harrower, Prin. Scien. and Research Biochem.; Walter B. Brown, M.D., Dir. Prof. Serv.; Livermore, Calif. (5117)

190. Clinical Experience with Thiocarbanidin.

Roger C. Beede, Research Biochem.; Robert Hechler, M.D., Staff Phys.; Maurice L. Becker, M.D., Ch. TB Serv.; Livermore, Calif. (5121)

191. Rehabilitation of Rehospitalized Patients.

David S. Brachman, M.D., Ch. Phys. Med. Rehab. Serv.; Livermore, Calif. (5122)

192. A Survey of the Occupational Status of Discharged Patients.
Marian R. Ballin, Ch. Vocat. Counsel. Serv.; Livermore, Calif. (5123)

193. A Survey of the Occupational Status of Discharged Patients.
Marian R. Ballin, Ch. Vocat. Counsel. Serv.; Livermore, Calif. (5123)

194. Cholesterol and Total Blood Fat Studies on Far Advanced. Pulmonary Tuberculosis Cases under Treatment with Three Drugs.
Emil O. Muhs, M.D., Staff Phys.; Livermore, Calif. (11002)

195. High Dosage of Isoniazid in Original and Retreatment Chemotherapy for Pulmonary Tuberculosis: II Guinea Pig Studies.
Harris J. Mark, Research Bact.; Livermore, Calif. (11007)

196. Technical Consideration in Decortication for the Pleural Complications of Pulmonary Tuberculosis.
Elmer J. Shabart, M.D., Ch. Surg. Serv.; Livermore, Calif. (11008)

197. Management of Tuberculous Alcoholics.
David S. Brachman, M.D., Ch. Phys. Med. and Rehab. Serv.; Livermore, Calif. (10382)

198. Study of Virulence of Tubercle Bacilli and Other Mycobacteria Isolated from Patients Before During and After Chemotherapy, and Its Correlation with Human Disease.
C. R. Smith, M.D., Cons. VAH, Prof. Bact., Univ. of Southern California Med. Sch.; E. A. Brosbe, Ph. D., Bact.; P. T. Sugihara, B.S. Bact.; L. Hyde, M.D., Ch. Pulm. Diseases; Long Beach, Calif. (5239)

199. Review of Patients with Pulmonary Tuberculosis with Positive Bacteriology and Persistently Negative Tuberculin Skin Tests.
Leroy Hyde, M.D., Ch. Pulm. Disease Serv.; Long Beach, Calif. (5240)

200. Skin Test Surveys to Determine Reaction Rate for Tuberculin, Coccidioidin, and Histoplasmin.
Leroy Hyde, M.D., Ch. Pulm. Disease Serv.; Long Beach, Calif. (5241)

201. Study of a New Tuberculo-Static Drug: Kanamycin (Kantrex).
Leroy Hyde, M.D., Ch. Pulm. Disease Serv.; Morton Shapiro, M.D., Phys. Pulm. Disease Serv.; Long Beach, Calif. (5248)

202. A Search for Potential Chemotherapeutic Compounds Against Pathogenic Atypical Mycobacteria.
Edwin A. Brosbe, Ph. D., Bact.; Paul T. Sugihara, B.S., Bact.; Leroy Hyde, M.D., Ch. Pulm. Disease, VAH; C. Richard Smith, M.D., Cons. VAH, Prof. Bact., Univ. of Southern California Med. Sch., Long Beach, Calif. (5249)

203. Follow-Up Study of 100 Tuberculosis Patients Discharged MHB from Veterans' Administration Hospital, Long Beach.

E. D. Klein, Univ. of California; Cyril W. Anderson, M.D., Ch. Ambulatory Sect. Pulm. Disease Serv.; Christine Agur, B.A., SWS; Alice Mason, M.A., SWS; Long Beach, Calif. (5252)

204. A Profile Study of 100 Patients Admitted to the Tuberculosis Service.

Christine V. Agur, B.A., SWS; Long Beach, Calif. (5253)

205. Effect of Dionosil on Protein-Bound Iodine and Radio Iodine Up-Take.

Leroy Hyde, M.D., Ch. Pulm. Dis. Serv.; Ralph Bodfish, M.D., Phys.-in-Charge, RI Serv.; Long Beach, Calif. (5275)

206. The Growth of Tubercle Bacilli and Other Mycobacteria in J–111 Cells and Human Mononuclear Cells.

Edwin A. Brosbe, Ph. D., Research Bact.; Paul T. Sugihara, B.S., Research Bact., VAH; C. Richard Smith, M.D., Cons., VAH, Prof. of Bact., Univ. of Southern California Med. Sch.; Leroy Hyde, M.D., Ch. Pulm. Diseases, VAH; Long Beach, Calif. (10709)

207. Follow-Up of Open Negative Tuberculosis Patients.

Leroy Hyde, M.D., Ch. Pulm. Disease Serv.; Cyril W. Anderson, M.D., Staff Phys., Pulm. Disease Serv.; Long Beach, Calif. (10710)

208. Incidence of Tuberculosis After Gastrectomy.

Leroy Hyde, M.D., Ch. Pulm. Disease Serv.; Long Beach, Calif. (10711)

209. Studies of Dihydrostreptomycin Pantothenate.

William L. Hewitt, M.D., Attend. Med., VAC, Asst. Prof. Med., Univ. of California at Los Angeles Med. Center; Sydney M. Finegold, M.D., Ch. Chest and Infect. Diseases, VAC; Los Angeles, Calif. (5660)

210. Pulmonary Resection in the Treatment of Pulmonary Tuberculosis.

Clarence E. Claugus, M.D., Asst. Ch. Surg. Serv.; Louisville, Ky. (5450)

211. Management of Extra-Pulmonary Tuberculosis.

Daniel N. Pickar, M.D., Asst. Ch. Med. Serv.; Louisville, Ky. (5473)

212. Streptomycin Sensitization Studies.

Mildred M. Stone, M.D., Staff Member; Madison, Wis. (5543)

213. Preoperative Evaluation of Patients Proposed for Pneumonectomy by Pulmonary Function and Cardiac Catheterization Data.

John K. Curtis, M.D., Ch. Med. and TB Serv.; Richard H. Wasserburger, M.D., Ch. Card. Sect., Asst. Ch. Med. TB. Serv., VAH; Charles W. Crumpton, M.D., Assoc. Prof. Med., Univ. of Wis.; Harold K. Rasmussen, Tech., VAH; Caroline Janet Lloyd, Tech.; Madison, Wis. (5544)

214. Biosynthesis of Trehalose by *Mycobacterium Tuberculosis.*

Dexter S. Goldman, Ph. D., Ch. Biochem., TB Research Lab., VAH; Frank A. Lorintzo, M.S., Proj. Asst., Univ. of Wisconsin; Madison, Wis. (5547)

215. The Succinic Dehydrogenase of *Mycobacterium Tuberculosis.*

Dexter S. Goldman, Ph. D., Ch. Biochem., TB Research Lab., VAH; Wiltraud J. C. Pfeiffer, Proj. Asst., Univ. of Wisconsin; Marcellyne F. Dodge, Proj. Asst., Univ. of Wisconsin; Madison, Wis. (5557)

216. The Reductive Acetylation of Lipoic Acid.

Dexter S. Goldman, Ph. D., Ch. Biochem., TB Research Lab.; Patricia Ann Koch, Tech.; Madison, Wis. (5558)

217. Loss of Pulmonary Function as a Result of Pulmonary Resection.

John T. Mendenhall, M.D., Ch. Surg. Serv.; William P. Young, M.D., Staff Phys., Surg.; B. Jack Longley, M.D., Asst. Ch. Surg. Serv.; Howard K. Rasmussen, Ch. Tech. Pulm. Func. Lab.; John K. Curtis, M.D., Ch. Med. and TB Serv.; Madison, Wis. (5573)

218. Loss of Pulmonary Function as a Result of Pulmonary Resection.

John T. Mendenhall, M.D., Ch. Surg. Serv.; William P. Young, M.D., Staff Phys., Surg.; B. Jack Longley, M.D., Asst. Ch. Surg. Serv.; Howard K. Rasmussen, Ch. Tech. Pulm. Func. Lab.; John K. Curtis, M.D., Ch. Med. and TB Serv.; Madison, Wis. (5573)

219. Experiences with Surgical Resection of Residual Nodular Disease in Pulmonary Tuberculosis.

John T. Mendenhall, M.D., Ch. Surg. Serv.; B. Jack Longley, M.D., Asst. Ch. Surg. Serv.; William P. Young, M.D., Staff Phys., Surg.; Madison, Wis. (5574)

220. Pulmonary Resection for Minimal Tuberculosis.

John T. Mendenhall, M.D., Ch. Surg. Serv.; William P. Young, M.D., Staff Phys., Surg.; B. Jack Longley, M.D., Asst. Ch. Surg. Serv.; Madison, Wis. (5577)

221. Evaluation of the Emerson Chest Respirator for Use in Bronchoscopy, Chest Injuries and Post-operative Hypoventilation.

James H. Barbour, M.D., Ch. Anes.; John T. Mendenhall, M.D., Ch. Surg. Serv.; B. Jack Longley, M.D., Asst. Ch. Surg. Serv.; Madison, Wis. (5580)

222. The Inhibition of Alanine Dehydrogenase by Metal Chelates of the Tetracycline Antibiotics.

Dexter S. Goldman, Ph. D., Ch. Biochem., TB Research Lab., VAH; Marion J. Wagner, Proj. Asst., Univ. of Wisconsin; Madison, Wis. (10405)

223. Intermediary Metabolism of Carbohydrates in a Strain of Tubercle Bacillus.

Dexter S. Goldman, Ph. D., Ch. Biochem., TB Research Lab., VAH; Fernando Bastarrachea, M.S., Proj. Asst., Univ of Wisconsin; Marcellyne F. Dodge, Proj. Asst., Univ. of Wisconsin; Marion J. Wagner, Proj. Asst., Univ. of Wisconsin; Madison, Wis. (10406)

224. Terminal Electron Transport in the Mycobacteria. I. Pyruvate to Oxygen.

Dexter S. Goldman, Ph. D., Ch. Biochem., TB Research Lab., VAH; Austin L. Shug, Ph. D., Proj. Assoc., Univ. of Wisconsin; Madison, Wis. (10407)

225. The Biosynthesis of Serine in the Mycobacteria.

Dexter S. Goldman, Ph. D., Ch. Biochem., TB Research Lab., VAH; Marion J. Wagner, Proj. Asst., Univ. of Wisconsin; Madison, Wis. (10408)

226. Butyryl Dehydrogenase Complex of Mycobacteria.

Dexter S. Goldman, Ph. D., Ch. Biochem., TB Research Lab., VAH; Alan Gelbard, Proj. Asst., Univ. of Wisconsin; Madison, Wis. (10409)

227. The Chemistry and Function of the Nucleic Acids of a Strain of *Mycobacterium Tuberculosis.*

Dexter S. Goldman, Ph. D., Ch. Biochem., TB Research Lab., VAH; Wiltraud J. C. Pfeiffer, Proj. Asst., Univ. of Wisconsin; Madison, Wis. (10410)

228. Terminal Electron Transport in the Mycobacteria. II DPNH Oxidases.

Dexter S. Goldman, Ph. D., Ch. Biochem., TB Research Lab.; Patricia Ann Koch, Tech.; Madison, Wis. (10411)

229. A Study of the Relationship of Serum Proteins to Intravascular Hemolysis in Pulmonary Tuberculosis.

Robert A. Hines, M.D., Staff Member; Madison, Wis. (10412)

230. Serum Protein Fractions in Pulmonary Tuberculosis.

J. Richard Johnson, M.D., Ch. Pulm. Disease Sect.; Robert A. Hines, M.D., Staff Phys.; Madison, Wis. (10413)

231. Use of Fluorescein Labeled Antibody in the Diagnosis of Tuberculous and Mycotic Infections.

Elsie M. Lapinski, Ph. D., Asst. Ch. Lab. Serv.; Madison, Wis. (10414)

232. A Rebreathing Technique as Described by Collier for the Determination of pCO_2.

John K. Curtis, M.D., Ch. Med. and TB Serv.; Edna M. Cree, M.D., Dir. Pulm. Func. Lab.; Howard K. Rasmussen, Ch. Tech. Pulm. Func. Lab.; Madison, Wis. (10415)

233. Methyl Prednisolone As an Adjunct to the Treatment of Pulmonary Tuberculosis.

J. Richard Johnson, M.D., Ch. Pulm. Dis. Sect.; Benton C. Taylor, M.D., Staff Phys.; John F. Morrissey, M.D., Staff Member; Madison, Wis. (11184)

234. Fatty Acid Metabolism of *Mycobacteria.*

Dexter S. Goldman, Ph. D., Ch. Biochem., TB Research Lab., VAH; Alan Gelbard, Proj. Asst,. Univ. of Wisconsin; Marion J. Wagner, Proj. Asst., Univ. of Wisconsin; Madison, Wis. (5548)

235. Cord-Inducing Factor of *Micrococcus Epidermidis.*

Dexter S. Goldman, Ph. D., Ch. Biochem., TB Research Lab.; Elise C. Goldman, Bact.; David G. Anderson, Ph. D., Biochem.; Madison, Wis. (5549)

236. The Pyruvic Dehydrogenase Complex of the Tubercle Bacillus.

Dexter S. Goldman, Ph. D., Ch. Biochem., TB Research Lab., VAH; Marion J. Wagner, Proj. Asst., Univ. of Wisconsin; Madison Wis. (5550)

237. The Alanine Dehydrogenase of *Mycobacterium Tuberculosis*

Dexter S. Goldman, Ph. D., Ch. Biochem., TB Research Lab., VAH; Marion J. Wagner, Proj. Asst., Univ. of Wisconsin; Madison, Wis. (5552)

238. The Lipoic Dehydrogenase-Transacetylase System.

Dexter S. Goldman, Ph. D., Ch. Biochem., TB Research Lab.; Patricia A. Koch, Tech, VAH; Marion J. Wagner, Proj. Asst., Univ. of Wisconsin; Madison, Wis. (5553)

239. The Phosphoglucomutase of *Mycobacterium tuberculosis.*

Dexter S. Goldman, Ph. D., Ch. Biochem., TB Research Lab.; David G. Anderson, Ph. D., Biochem., VAH; Marcellyne F. Dodge, Proj. Asst., Univ. of Wisconsin; Madison, Wis. (5554)

240. The Formation of Adaptive Enzymes by *Mycobacterium tuberculosis.*

Dexter S. Goldman, Ph. D., Ch. Biochem., TB Research Lab., VAH; Fernando Bastarrachea, M.S., Proj. Asst., Univ. of Wisconsin,; Madison, Wis. (5555)

241. The Phosphorylation of Glycerol by *Mycobacterium tuberculosis.*

Dexter S. Goldman, Ph. D., Ch. Biochem., TB Research Lab., VAH; Elsa Gonzalez, Ph. D., Proj. Asst., Univ. of Wisconsin; Marcellyne F. Dodge, Proj. Asst., Univ. of Wisconsin; Madison, Wis. (5556)

242. Experiences with Plastic Sponge Prosthesis Following Resection in Pulmonary Tuberculosis.

John T. Mendenhall, M.D., Ch., Surg. Serv.; William P. Young, M.D., Staff Phys. Surg.; B. Jack Longley, M.D., Asst. Ch. Surg. Serv.; Madison, Wis. (5570)

243. Localized Resection of Persistent Cavities From Within Extensively Diseased Lung Tissue.

John T. Mendenhall, M.D., Ch. Surg. Serv.; B. Jack Longley, M.D., Asst. Ch. Surg. Serv.; William P. Young, M.D., Staff Phys. Surg.; Madison, Wis. (5571)

244. Validation of Projective Test Indices Predicting Hospital Discharge of Tuberculosis Patients.

Aldo Santorum, Ph. D., Psychol.; Martinsburg, W. Va. (5896)

245. Routine Bacterial Sensitivity Tests

Loyal S. Suter, M.S., Ch. Bact. Sect., Lab. Serv.; Elizabeth W. Ulrich, M.T., Tech., Bact. Sect., Lab. Serv.; Memphis, Tenn. (6025)

246. Hospital Adjustment of Tuberculosis Patients on Different Wards of the Same Hospital

Neil W. Shelton, Ph. D., Clin. Psychol.; Samuel Phillips, M.D., Ch. Pulm. Disease Serv.; Memphis, Tenn. (6097)

247. Use of Neomycin as an Aerosol in Pulmonary Tuberculosis.

Samuel Phillips, M.D., Ch. Pulm. Disease Serv.; Charles P. Stevick, M.D., Ch. TB Sect., Pulm. Disease Serv.; John C. Larkin, M.D., Asst. Ch. Pulm. Disease Serv.; Glenn E. Horton, M.D., Asst. Ch. Non-TB Sect., Pulm. Disease Serv.; Memphis, Tenn. (6110)

248. Iproniazid as a Supplement in the Treatment of Pulmonary Tuberculosis.

John C. Larkin, M.D., Asst. Ch. Pulm. Disease Serv.; Charles P. Stevick, M.D., Ch. TB Sect., Pulm. Disease Serv.; James B. Flanagan, M.D., Staff Phys., Pulm. Disease Serv.; Samuel Phillips, M.D., Ch. Pulm. Disease Serv.; Memphis, Tenn. (6111)

249. A Pilot Study of Nasal Swab Cultures for *Mycobacterium tuberculosis.*

Robert D. Trevathan, M.D., Staff Phys., Pulm. Disease Serv.; Memphis, Tenn. (8771)

250. Quantitative Determination of Penicillinase Production in Tubercle Bacilli Cultures.

Loyal S. Suter, M.S., Ch. Bact. Sect.; Elizabeth W. Ulrich, M.T., Tech. Bact. Sect.; Memphis, Tenn. (10465)

251. Treatment of Pulmonary Tuberculosis in Alcoholics.

Roger L. Hickman, M.D., Staff Phys., Pulm. Disease Serv; Samuel Phillips, M.D., Ch. Pulm. Disease Serv.; Memphis, Tenn. (10498)

252. Immunology and Chemotherapy of Tuberculosis.

Wendell H. Hall, M.D., Ph. D., Ch. Lab. Serv.; Richard H. Lyon, B.S., Research Bact.; Herman C. Lichstein, D. Sc., Cons. VAH, Prof. Bact., Univ. of Minnesota; Robert A. Raich, M.D., Resident, Med. Serv.; Jacquelyn C. Nelson, B.S., Research Med. Tech.; Minneapolis, Minn. (6157)

253. Mechanism of Action of Isoniazid on Tubercle Bacilli.

Wendell H. Hall, M.D., Ph. D., Ch. Lab. Serv.; Richard H. Lyon, B.S., Research Bact.; John W. Jenne, M.D., Phys., Pulm. Disease Serv.; Jacquelyn C. Nelson, B.S., Research Med. Tech., Minneapolis, Minn. (6182)

254. Study of Morphology Mode of Growth and Cell Division of Tubercle Bacilli and Atypical Acid-Fast Bacilli.

Wendell H. Hall, M.D., Ph. D., Ch. Lab. Serv.; Jacquelyn C. Nelson, B.S., Research Med. Tech., Minneapolis, Minn. (6196)

255. Metabolism of Isoniazid.

John W. Jenne, M.D., Staff Phys., Pulm. Dis. Serv., Minneapolis, Minn. (9795)

256. Steroid Therapy in Tuberculosis.

Frank M. MacDonald, M.D., Ch. Pulm. Dis. Serv.; Alfred Eichenholz, M.D., Asst. Ch. Pulm. Dis. Serv., John W. Jenne, M.D., Staff Phys., Pulm. Dis. Serv.; James P. Lillehei, M.D., Staff Phys., Pulm. Dis. Serv.; Minneapolis, Minn. (9796)

257. Tuberculous Meningitis and Its Neurologic Residuals.

Abraham Falk, M.D., Cons. VAH (Pulm. Dis. Serv.), and Asst. Prof. Med., Univ. of Minn.; Minneapolis, Minn. (9797)

258. Primary Tuberculous Pleural Effusion.

Abraham Falk, M.D., Cons. VAH (Pulm. Dis. Serv.), and Asst. Prof. Med., Univ. of Minn.; Minneapolis, Minn. (9798)

259. Survey of the Present Population on the Tuberculosis Service as Compared to Five Years Ago.

Sarah P. Rowe, M.S.W., Clin. SW (Med.); Ruth B. Agar, M.S.W., Clin. SW (Med.); Beverly V. Peterson, M.S.W., Clin. SW (Med.); Minneapolis, Minn. (9799)

260. The Pathogenesis of Bullous Cavitary Lesions in the Rabbit.

Nicholas D'Esopo, M.D., Ch. Pulm. Dis. Serv.; Raymond Yesner, M.D., Ch. Lab. Serv.; Sidney Bernstein, Research Bact., Pulm. Dis. Serv.; New Haven, Conn. (8090)

261. Study of the Effectiveness of Steroid Therapy in Advanced Pulmonary Tuberculosis.

Jordan Thompson, M.D., Ch. TB Sect.; Howard A. Buechner, M.D., Ch. Med. Serv.; New Orleans, La. (6376)

262. The Immune Adherence Test for Tuberculosis.

Clarise H. Illes, B.A., Ch. Serol. Sect.; Michael Kenney, M.D., Asst. Ch. Lab. Serv.; Guido J. Rio, M.S., Bact.; New York, N.Y. (6552)

263. A Comparative Study of Isolation of *M. Tuberculosis* from 24-Hour and Morning Specimens.

Michael Kenney, M.D., Ch. Clin. Path. Sect.; Elizabeth C. Arrowsmith, B.A., Ch. Bact. Sect.; Albert B. Loechel, Med. Tech.; New York, N.Y. (6553)

264. The Detection of Circulating Antibody to Purified Protein Derivative.

M. Oratz, Ph. D., Asst. Ch. RI Serv.; M. A. Rothschild, M.D., Ch. RI Serv., VAH; S. S. Schreiber, M.D., Attend. Intern., RI Serv., VAH; Clin. Instr. Med., New York Univ. Coll. of Med.; New York, N.Y. (6567)

265. Mechanisms Underlying Apparent Absence of Circulating Antibodies in Patients with Active Tuberculosis.

Bruno Gerstl, M.D., Ch. Lab. Serv.; Charles T. Uyeda, Ph. D., Bact.; A. Gerson Hollander, M.D., Ch. TB Serv.; Selig B. Weinstein, M.D., Ward Phys.; Oakland, Calif. (6652)

266. Relationship of Immunologic to Cytologic Responses in Tuberculosis.

Sidney Raffel, M.D., Ch. Dept. Med. Microbiol., Stanford Univ., Bruno Gerstl, M.D., Ch. Lab. Serv., VAH; Oakland, Calif. (6654)

267. Variation in Serum Glycoproteins in Tuberculosis Patients Before, During and After Chemotherapy.

Harold G. Muchmore, M.D., Clin. Invest.; Frances G. Felton, Ph. D., Ch. Clin. Lab.; Jane B. Faulkner, Tech.; James F. Hammarsten, M.D., Ch. Med. Serv.; Oklahoma City, Okla. (6885)

268. Variation in Serum Glycoproteins in Tuberculosis Patients Before, During and After Chemotherapy.

Harold G. Muchmore, M.D., Clin. Invest.; Frances G. Felton, Ph. D., Ch. Clin. Lab.; Jane B. Faulkner, Tech.; James F. Hammarsten, M.D., Ch. Med. Serv.; Oklahoma City, Okla. (6885)

269. To Determine If There Are Differences in the Citric Acid Cycle of Virulent, Avirulent and Drug Resistent Strains of *Mycobacterium Tuberculosis.*

Harold G. Muchmore, M.D., Clin. Invest; Frances G. Felton, Ph. D., Ch. Clin. Lab.; Oklahoma City, Okla. (6886)

270. The Effect of Hydrocortisone on Multiplication of Certain Bacteria.

Harold G. Muchmore, M.D., Clin. Invest.; Allen R. Hennes, M.D., Asst. Ch. Med. Serv.; James F. Hammarsten, M.D., Ch. Med. Serv.; Oklahoma City, Okla. (9990)

271. Army, Navy, VA Tuberculosis Chemotherapy Study Group Project.

Frances G. Felton, Ph. D., Ch. Clin. Lab.; Harold G. Muchmore, M.D., Clin. Invest.; Carryl Wiggins, M.D., Ch. OP Serv.; Oklahoma City, Okla. (9991)

272. Antibodies to Human Lung in Pulmonary Emphysema and Tuberculosis.

Allen R. Hennes, M.D., Asst. Ch. Med. Serv.; James F. Hammarsten, M.D., Ch. Med. Serv.; Roy Carpenter, M.D., Resident Phys.; Margaret Moore, Tech.; Oklahoma City, Okla. (10000)

273. Tuberculosis.

William P. Kleitsch, M.D., Ch. Surg. Serv.; Omaha, Nebr.; (6726)

274. Genito-Urinary Tuberculosis.

Ralph E. Moyer, M.D., Ch. TB Serv.; Oteen, N.C. (6665)

275. Cases of Extra-Pulmonary Tuberculosis.

Ralph E. Moyer, M.D., Ch. TB Serv.; Oteen, N.C. (6666)

276. Meningeal and Miliary Tuberculosis.

Ralph E. Moyer, M.D., Ch. TB Serv.; Oteen, N.C. (6667)

277. Study of the So-Called Filtrate Disease.
O. Kanner, M.D., Ch. Lab. Serv.; Frances Cuthrell, Med. Tech.; Oteen, N.C. (6668)

278. Atypical Acid Fast Bacilli.
O. Kanner, M.D., Ch. Lab. Serv.; Frances Cuthrell, Med. Tech.; James M. Fore, Med. Tech.; Oteen, N.C. (6670)

279. General Principles of *In Vitro* Bacterial Susceptibility.
O. Kanner, M.D., Ch. Lab. Serv.; Frances Cuthrell, Med. Tech.; Oteen, N.C. (6671)

280. Pulmonary Tuberculosis. Study XIV. Non-randomized but Reported. Streptovaricin 3.0 gm/day (single dose) and Isoniazid 300 mg/day (100 mg, t.i.d.) both given p.o.
R. E. Moyer, M.D., Ch. TB Serv.; Oteen, N.C. (6672)

281. Pulmonary Tuberculosis. Study XVII. Randomized and Reported. Chemotherapy for 9 Additional Months Post "Target Point." Chemotherapy for 18 Additional Months Post "Target Point."
R. E. Moyer, M.D., Ch. TB Serv.; Oteen, N.C. (6674)

282. Primary Tuberculous Pleural Effusion.
Ralph E. Moyer, M.D., Ch. TB Serv.; Oteen, N.C. (6675)

283. Pulmonary Tuberculosis Study XV.
Ralph E. Moyer, M.D., Ch. TB Serv.; Oteen, N.C. (6676)

284. Pulmonary Tuberculosis Study XVIII.
Ralph E. Moyer, M.D., Ch. TB Serv.; Oteen, N.C. (6677)

285. Pulmonary Tuberculosis Study XXI, A & B.
Ralph E. Moyer, M.D., Ch. TB Serv.; Oteen, N.C. (6678)

286. Pulmonary Tuberculosis Pilot Study.
Ralph E. Moyer, M.D., Ch. TB Serv.; Oteen, N.C. (6679)

287. Pulmonary Tuberculosis Pilot Study.
Ralph E. Moyer, M.D., Ch. TB Serv.; Oteen, N.C. (6680)

288. Clinical Evaluation of the Gel Diffusion Technique for the Diagnosis of Tuberculosis.
Oscar Kanner, M.D., Ch. Lab. Serv.; Oteen, N.C. (10208)

289. Pulmonary Tuberculosis Study X.
Ralph E. Moyer, M.D., Ch. TB Serv.; Oteen, N.C. (10209)

290. Pulmonary Tuberculosis Study XIX.
Ralph E. Moyer, M.D., Ch. TB Serv.; Oteen, N.C. (10210)

291. Effect of Triamcinolone and Other Corticosterioids on the Tuberculin Reaction.
Leo E. Hollister, M.D., Ch. Med. Serv.; Frederic S. Glazener, M.D., Ward Ch. Med. Serv.; Palo Alto, Calif. (8476)

292. The *In Vivo* Inactivation of Isonicotinic-Hydrazide and its Possible Significance in the Treatment of Tuberculosis.
Helen Seraichekas, Bact.; Ben C. Claunch, M.D., Ch. TB Sec.; Providence, R.I. (7171)

293. Bio-assay for INH.

Abraham L. Rosenzweig, Bact. Clin. Lab.; Richmond, Va. (7217)

294. Chromogenic Acid Fast Bacilli.

A. L. Rosenzweig, M.S., Bact. Clin. Lab.; Richmond, Va. (7220)

295. High-Speed Centrifuging of Clinical Material in Tuberculosis.

Abraham L. Rosenzweig, Bact. Clin. Lab.; Richmond, Va. (9894)

296. The role of Serum Factors in Tuberculin Hypersensitivity.

Edward F. O'Neill, Research Bact.; Rutland Heights, Mass. (7273)

297. Myoplasty in the Treatment of Bronchopleural Fistula.

Thomas J. Enright, M.D., Ch. Surg. Serv., VAH; James C. Ling, M.D., Asst. Ch. Surg. Serv., VAH; Dwight E. Harken, M.D., Cons. Thoracic Surg. VAH, Assoc Clin. Prof. Surg., Harvard Med. Sch.; Harrison Black, M.D., Cons. Thoracic Surg. VAH., Instr. Surg., Harvard Med. Sch.; Rutland Heights, Mass. (7275)

298. Phenomena in Tuberculous Patients which May Reflect Delayed Effects in Intracutaneous Tuberculin Inoculations.

Edward F. O'Neill, Lab. Research Bact.; Rutland Heights, Mass. (7277)

299. The Leukemoid Response to Hypersensitized Rabbits to Culture Filtrates of Various Mycobacteria Strains.

Edward F. O'Neill, Research Bact.; Rutland Heights, Mass. (10390)

300. A Study of Psychological Correlates of Refusal of Thoracic Surgery by Tuberculous Veterans.

Ellsworth J. Bourque, Ed. D., Ch. Vocat. Counsel. Serv.; Thomas J. Enright, M.D., Ch. Surg. Serv.; Rutland Heights, Mass. (10391)

301. The Gel-Diffusion Precipitation Test as a Prognostic Aid Following Resection for Pulmonary Tuberculosis.

Thomas J. Enright, Ch. Surg. Serv.; James C. Ling, M.D., Asst. Ch. Surg. Serv.; Edward F. O'Neill, Research Bact.; Rutland Heights, Mass. (10392)

302. Investigation of Certain Bacteriological and Pathogenic Properties of Drug-Resistant Strains of Tubercle Bacilli.

H. Wm. Harris, M.D., Ch. Pulm. Disease Serv.; Merle J. Selin, B.S., Clin. Bact.; Salt Lake City, Utah. (7286)

303. A Simplified Technique for Recovery of Tubercle Bacilli from Tuberculous Tissue.

H. William Harris, M.D., Ch. Pulm. Disease Serv.; Merle J. Selin, B.S., Clin. Bact.; Salt Lake City, Utah. (7287)

304. Studies of the Isoniazid Blood and Cerebral Spinal Fluid Levels in a Patient With Recurrent Tuberculous Meningitis.

H. William Harris, M.D., Ch. Pulm. Disease Serv.; Ralph A. Knight, Ph. D., Research Bact.; Merle J. Selin, B.S., Clin. Bact.; Salt Lake City, Utah. (7288)

305. Correlation of Isoniazid Blood Levels With the Results of Treatment with Isoniazid in Patients With Pulmonary Tuberculosis.

H. William Harris, M.D., Ch. Pulm. Dis. Serv.; Ralph A. Knight, Ph. D., Research Bact.; Merle J. Selin, B.S., Clin. Bact.; Salt Lake City, Utah. (7289)

306. Comparison of Isoniazid Serum Levels in the Japanese and Caucasian Races: Therapeutic and Genetic Implications.

H. William Harris, M.D., Ch. Pulm. Disease Serv.; Ralph A. Knight, Ph. D., Research Bact.; Merle J. Selin, B.S., Clin. Bact.; Salt Lake City, Utah. (7290)

307. Study of the Inhibition of "Wild Strains" of Tubercle Bacilli by Serum Obtained from Patients Given Various Antituberculous Drugs.

H. William Harris, M.D., Ch. Pulm. Disease Serv.; Merle J. Selin, B.S., Clin. Bact.; Salt Lake City, Utah. (7291)

308. The Chemotherapeutic Effect of Ataractic Drugs on *Mycobacterium Tuberculosis*, and the Influence of These Drugs on the Action of Isoniazid.

H. William Harris, M.D., Ch. Pulm. Disease Serv.; Ralph A. Knight, Ph. D., Research Bact.; Salt Lake City, Utah. (7293)

309. Comparison of American Trudeau Society and Middlebrook-Dubois "7h9" Medium for the Recovery of Tubercle Bacilli From Biological Specimens.

H. William Harris, M.D., Ch. Pulm. Dis. Serv.; Merle J. Selin, B.S., Clin. Bact.; Salt Lake City, Utah. (7294)

310. Distinguishing Mycobacteria by the Niacin Test.

Ernest H. Runyon, Ph. D., Research Microbiol.; Merle J. Selin, B.S., Clin. Bact.; H. William Harris, M.D., Ch. Pulm. Dis. Serv.; Salt Lake City, Utah. (10511)

311. Genetic Factors Determining INH Serum Levels in Humans.

H. William Harris, M.D., Ch. Pulm. Disease Serv.; Ralph A. Knight, Ph. D., Research Bact.; Merle J. Selin, B.S., Clin. Bact.; Salt Lake City, Utah. (10508)

312. INH Serum Levels Among Members of Various Races.

H. William Harris, M.D., Ch. Pulm. Disease Serv.; Ralph A. Knight, Ph. D., Research Bact.; Merle J. Selin, B.S., Clin. Bact.; Salt Lake City, Utah. (10509)

313. Renal Clearance of Isoniazid—Comparison of "Rapid" and "Slow" Inactivators.

Ralph A. Knight, Ph. D., Research Bact.; Dorian R. Faber, B.S., Med. Tech.; Merle J. Selin, B.S., Clin. Bact.; H. William Harris, M.D., Ch. Pulm. Disease Serv.; Salt Lake City, Utah. (10510)

314. Differentiation of Mycobacteria.

Ernest H. Runyon, Ph. D., Research Microbiol.; Alfred P. Dufour, B.S., Clin. Bact.; Salt Lake City, Utah. (10512)

315. Drug Susceptibilities of the Anonymous Mycobacteria.

Ernest H. Runyon, Ph. D., Research Microbiol.; Alfred P. Dufour, B.S., Clin. Bact.; Salt Lake City, Utah. (10513)

316. The Pigments of Mycobacteria.

Dorian R. Faber, B.S., Med. Tech.; Ernest H. Runyon, Ph. D., Research Microbiol.; H. William Harris, M.D., Ch. Pulm. Disease Serv.; Salt Lake City, Utah. (10514)

317. Maintenance of the Mycobacterial Culture Bank.

Ernest H. Runyon, Ph. D., Research Microbiol.; Alfred P. Dufour, B.S., Clin. Bact.; Salt Lake City, Utah. (10515)

318. Metabolism of Isoniazid in Tissue Culture.

Ralph A. Knight, Ph. D., Research Bact.; Salt Lake City, Utah. (10516)

319. Comparison of "ATS" Medium and "7H9" Medium for Para-aminosalicylic Acid (PAS) Sensitivity Testing.

Merle J. Selin, B.S., Clin. Bact.; Don A. Sherwood, Med. Tech.; H. William Harris, M.D., Ch. Pulm. Disease Serv.; Salt Lake City, Utah. (10517)

320. Cooperative Study of Atypical Mycobacterial Infection of Man Foreign Survey (NTA-VA).

Ernest H. Runyon, Ph. D., Research Microbiol., VAH, Salt Lake City, Utah; Emanuel Wolinsky, M.D., Cleveland Metropolitan Gen. Hosp., Cleveland, Ohio; Floyd M. Feldmann, M.D., Med. Dir., National Tuberculosis Assoc.; New York, N.Y. (10807)

321. Cooperative Study of Scotochromogens.

Ernest H. Runyon, Ph. D., Research Microbiol.; Alfred P. Dufour, B.S., Clin. Bact.; Salt Lake City, Utah. (10808)

322. The Tuberculin Test in Healed Tuberculosis.

Sherman T. Stenberg, M.D., Ch. Outpatient Serv.; David Salkin, M.D., Dir. Prof. Serv.; San Fernando, Calif. (7398)

323. Correlation of Electrocardiographic and Anatomical Findings in Coronary Occlusion.

David Salkin, M.D., Dir. Prof. Serv.; Harold Birnbaum, M.D., Phys.; Harry C. Fortner, M.D., Ch. Lab. Serv.; San Fernando, Calif. (7399)

324. The Incidence of Coronary Vascular Disease in Cor-pulmonale.

David Salkin, M.D., Dir. Prof. Serv.; San Fernando, Calif. (7400)

325. Correlation of the Clinical and Anatomical Findings in Tuberculous Pericarditis.

David Salkin, M.D., Dir. Prof. Serv.; Harold Birnbaum, M.D., Phys.; Harry C. Fortner, M.D., Ch. Lab. Serv.; San Fernando, Calif. (7401)

326. Correlation of Serum Glycoprotein Levels with the Course of Clinical Tuberculosis.

David Salkin, M.D., Dir. Prof. Serv.; S. H. Lawrence, M.D., Phys.; Henry E. Weimer, Ph. D., Cons.; San Fernando, Calif. (7402)

327. Anatomical Studies of the Coronary Circulation.

David Salkin, M.D., Dir. Prof. Serv.; William J. Juarez, M.T., Lab. Tech.; San Fernando, Calif. (7403)

328. Correlation of Clinical and Anatomical Findings in Cor-pulmonale.

David Salkin, M.D., Dir. Prof. Serv.; Harold Birnbaum, M.D., Phys.; Harry C. Fortner, M.D., Ch. Lab. Serv.; San Fernando, Calif. (7404)

329. Cumulative Survey of the Fate of Tubercle Bacilli in Human Pulmonary Lesions.

Lawrence G. Wayne, Ph. D., Ch. Microbiol. Research Unit; David Salkin, M.D., Dir. Prof. Serv.; Eltha G. Nichols, B.S., Med. Bact.; San Fernando, Calif. (7405)

330. Studies on Potential Viability of Non-Culturable Tubercle Bacilli in Resected Lung Tissue.

Lawrence G. Wayne, Ph. D., Ch. Microbiol. Research Unit; David Salkin, M.D., Dir. Prof. Serv.; Eltha G. Nichols, B.S., Med. Bact., San Fernando, Calif. (7406)

331. Application of Molecular Filter Techniques to Recovery of Tubercle Bacilli and Fungi from Clinical Inocula.

Lawrence G. Wayne, Ph.D., Ch. Microbiol. Research Unit, Milton Huppert, Ph. D., Ch. Mycol. Research Lab.; George Kidd, M.T., Lab. Tech., San Fernando, Calif. (7407)

332. Characterization of Atypical Acid-Fast Microorganisms Isolated from Clinical Materials.

Lawrence G. Wayne, Ph. D., Ch. Microbiol. Research Unit, Milton Huppert, Ph. D., Ch. Mycol. Research Lab.; Eltha G. Nichols, B.S., Med. Bact.; San Fernando, Calif. (7410)

333. Practical Differentiation Between Tubercle Bacilli, Atypical Mycobacteria and Nocardia from Clinical Specimens.

Lawrence G. Wayne, Ph. D., Ch. Microbiol. Research Unit; Milton Huppert, Ph. D., Ch. Mycol. Research Lab.; Eltha G. Nichols, B.S., Med. Bact.; San Fernando, Calif. (7411)

334. Expansion of Existing Laboratory Facilities and Establishment of a New Mycology Laboratory.

Lawrence G. Wayne, Ph. D., Ch. Microbiol. Research Unit; Milton Huppert, Ph. D., Ch. Mycol. Research Lab.; San Fernando, Calif. (7412)

335. Factors Influencing the Neutral Red Reaction of Mycobacteria.

Lawrence G. Wayne, Ph. D., Ch. Microbiol. Research Unit; Eltha G. Nichols, B.S., Med. Bact.; San Fernando, Calif. (7415)

336. Pathological Studies of Fatal Hemoptysis in Tuberculosis.

David Salkin, M.D., Dir. Prof. Serv.; San Fernando, Calif. (7416)

337. Study of I^{131} Uptake Following Prolonged Use of Para Amino Salicylic Acid (PAS) and Isoniazid (INH).

Edward D. Seinfeld, M.D.; Sanford H. Lawrence, M.D., Phys.; San Fernando, Calif. (7418)

338. Enzyme Studies in Tuberculosis and Carcinoma.

Sanford H. Lawrence, M.D., Phys.; San Fernando, Calif. (7419)

339. Hospital Management of Tuberculous Patients Whose Treatment is Complicated by Chronic Alcoholism.

Harold Birnbaum, M.D., Phys.; Barbara Stewart, Ph. D., Ch. Clin. Psych.; David Salkin, M.D., Dir. Prof. Serv.; William E. Myers, M.D., Ch. TB Serv.; San Fernando, Calif. (7422)

340. Immunoelectrophoretic Correlation of Protein Findings in Tuberculosis and Carcinoma by Other Electrophoretic Techniques.

Sanford H. Lawrence, M.D., Phys., VAH; Henry E. Weimer, Ph. D., Cons., VAH, and Asst. Prof., Dept. of Infect. Diseases, Univ. of California at Los Angeles; San Fernando, Calif. (10586)

341. Paper Electrophoretic Studies of the Proteins and Glycoproteins in Patients With Tuberculosis, Cancer, and Other Chronic Diseases After Preliminary Separation by Chromstagraphy Using Substituted Celluloses as an Absorbing Medium.

Sanford H. Lawrence, M.D., Phys.; David Salkin, M.D., Dir. Prof. Serv., VAH; Henry E. Weimer, Ph. D., Cons., VAH, and Asst. Prof., Dept. of Infect. Diseases, Univ. of California at Los Angeles; San Fernando, Calif. (10587)

342. Two Dimensional Study of Serum Proteins of Patients With Tuberculosis, Cancer, and Other Chronic Diseases by Means of Starch Gel Electrophoresis After Preparatory Separation on a Curtain-Type Electrophoresis Apparatus.

Sanford H. Lawrence, M.D., Phys.; David Salkin, M.D., Dir. Prof. Serv., VAH; Henry E. Weimer, Ph. D., Cons., VAH, and Asst. Prof., Dept. of Infect. Diseases, Univ. of California at Los Angeles; San Fernando, Calif. (10588)

343. Autolytic Processes in *Mycobacterium Tuberculosis*.

Lawrence G. Wayne, Ph. D., Ch. Microbiol. Research Unit; Eltha G. Nichols, B.S., Med. Bact.; San Fernando, Calif. (10589)

344. Histochemical Study of Surgically Resected Tuberculous Lung Specimens.

Perry J. Melnick, M.D., Ch. Lab. Serv.; San Fernando, Calif. (10590)

345. Studies in Tuberculin Sensitivity in Patients in Veterans Administration Hospital, Sepulveda.

George Altbach, M.D., Ch. TB–NP Serv., VAH; E. Bogen, M.D., Cons., TB, Olive View Sanatorium; Sepulveda, Calif. (10442)

346. A Comparative Study of Four Media for the Isolation of *Mycobacterium Tuberculosis.*

Loris J. Barberousse, M.S., Bact.; Shreveport, La. (7762)

347. Early Ambulation and Chemotherapy in Treatment of Active Pulmonary Tuberculosis.

James W. Raleigh, M.D., Ch. Pulm. Disease Serv. (former); Eugene J. Des Autels, M.D., Ch. Pulm. Disease Serv.; Sunmount N.Y. (7742)

348. Virulence of Tubercle Bacilli Isolated from Patients Prior to and During Therapy with Isoniazid.

Joseph P. Kazlowski, Act. Asst. Ch. Lab. Serv.; William Steenken, Jr., D. Sc., Cons. Bact.; James W. Raleigh, M.D., Ch. Pulm. Disease Serv. (former); Sunmount, N.Y. (7743)

349. The Correlation between Chemotherapy, Bacteriology and Pathology of Experimental Tuberculosis in Rabbits.

Joseph P. Kazlowski, Bact.; Mario Montes, Ch. Lab. Serv.; William Steenken, Jr., D. Sc., Cons. Bact.; James W. Raleigh, M.D., Ch. Pulm. Disease Serv. (former); Alfred M. Decker, Jr., M.D., Cons. Gen. and Thoracic Surg.; Sunmount, N.Y. (7744)

350. Investigation of the Metabolism of Tubercle Bacilli.

Friedrich W. Klemperer, M.D., Ch. Med. Serv.; Kenneth G. Stark, Biochem.; Sunmount, N.Y. (7745)

351. Further Studies on the Function of Pulmonary Tissue Remaining after Pulmonary Resection for Tuberculosis.

James H. Bannon, M.D., Ch. Cardiorespir. Func. Lab.; Sunmount, N.Y. (7746)

352. Investigation of Necrotizing Factor in Tuberculous Lesions.

Friedrich W. Klemperer, M.D., Ch. Med. Serv.; Kenneth G. Stark, Biochem.; Sunmount, N.Y. (7747)

353. Pigments of Bacterial Skotochromogens and Photochromogens.

Pio A. Caccia, Ph. D., Biochem. Lab.; Sunmount, N.Y. (7749)

354. The Effect of a Tranquilizing Drug on the Irregular Discharge Rate.

Bascom Johnson, Jr., M.D., Dir. Prof. Serv.; Saul R. Rotman, Ph. D., Ch. Psychol. Serv.; Sunmount, N.Y. (7751)

355. Isolation of Globulins from the Patients with Tuberculosis.

Pio A. Caccia, Ph. D., Biochem. Lab.; Sunmount, N.Y. (7750)

356. Isolation of Fractions of Bacterial Proteins.

Pio A. Caccia, Ph. D., Biochem. Lab.; Sunmount, N.Y. (7752)

357. The Determination of Isoniazid in Blood and Urine.

Pio A. Caccia, Ph. D., Biochem. Lab.; Sunmount, N.Y. (7753)

358. Correlation between Isoniazid Resistance, Catalase Activity, Guinea Pig Virulence of Tuberculosis and Clinical Course of Patient.

Joseph P. Kazlowski, Act. Asst. Ch. Lab. Serv.; James W. Raleigh, M.D., Ch. Pulm. Disease Serv. (former); Sunmount, N.Y. (9754)

359. Study of Thiocarbanidin.

James W. Raleigh, M.D., Ch. Pulm. Disease Serv. (former); Eugene J. Des Autels, M.D., Ch. Pulm. Disease Serv.; Sunmount, N.Y. (7756)

360. Study of Kanamycin.

James W. Raleigh, M.D., Ch. Pulm. Disease Serv. (former); Eugene J. Des Autels, M.D., Ch. Pulm. Disease Serv.; Sunmount, N.Y. (7757)

361. The Enzyme Catalase in Tuberculosis and Cancer, and Lactic Dehydrogenase in Cancer.

Pio A. Caccia, Ph. D., Biochem. Lab.; Sunmount, N.Y. (10634)

362. Evaluation of Growth, Susceptibilities and Pathogenicity of Tubercle Bacilli Recovered under CO_2 and Routine Incubation.

Joseph P. Kazlowski, Act. Asst. Ch. Lab. Serv.; Mario Montes, M.D., Ch. Lab. Serv.; William Steenken, Jr., D. Sc., Cons. Bact.; Sunmount, N.Y. (10635)

363. Pathogenetic Studies on Human Tuberculosis.

Mario Montes, M.D., Ch. Lab. Serv.; Sunmount, N.Y. (10636)

364. High-Dosage Isoniazid.

Eugene J. Des Autels, M.D., Ch. Pulm. Disease Serv.; Marguerite Kingsbury, M.D., Asst. Ch. Pulm. Disease Serv.; Olga R. Hoffmann, M.D., Ward Phys., Pulm. Disease Serv.; Sunmount, N.Y. (10637)

365. Effectiveness of Streptomycin Chemotherapy for Guinea Pigs Inoculated with Streptomycin Susceptible Tubercle Bacilli Isolated from Patients and Rabbits.

Joseph P. Kazlowski, Act. Asst. Ch. Lab. Serv.; Mario Montes, M.D., Ch. Lab. Serv.; William Steenken, Jr., D. Sc., Cons. Bact.; Sunmount, N.Y. (10638)

366. Serum Transaminase in Isoniazide Induced Pyridoxine Deficiency.

Robert E. Dutton, Jr., M.D., Phys. Chest Dis. Div., Med. Serv., VAH; Myron Brin, Ph. D., Asst. Prof. Biochem., State Univ. New York; Attilio D. Renzetti, Jr., M.D., Ch. Chest Dis. Div., Med. Serv., VAH; Syracuse, N.Y. (8933)

367. Differentiation of *Mycobacterium Tuberculosis* Hominis Strains Using Bacteriophage Method.

Joseph Harding Stickler, M.D., Ward Phys., TB Serv.; Stanley P. Meetz, B.S., Bact.; Tucson, Ariz. (7923)

368. The Prevalence of Mycotic Infections in Pulmonary Tuberculosis.

Frank B. Fuller, Bact.; Robert C. Bock, Med. Tech.; Myron L. Fuller, Med. Tech.; Walla Walla, Wash. (8048)

369. An Evaluation of Nicotinic Acid Synthesis by the Tubercle Bacillus of Human Origin.

Frank B. Fuller, Bact.; Robert C. Bock, Med. Tech.; Myron L. Fuller, Med. Biol. Tech.; Walla Walla, Wash. (8052)

370. A Study of Thiocarbanidin as a New Antituberculous Drug.

Frank B. Fuller, Bact.; Robert S. Korfhage, Med. Tech.; Myron L. Fuller, Med. Biol. Tech.; Walla Walla, Wash. (8054)

371. Studies on the Mode of Action of Surface-active Agents in Tuberculosis.

Robert A. Patnode, Ph. D., Ch. TB Research Lab.; Paul C. Hudgins, Med. Biol., TB Research Lab.; Washington, D.C. (7962)

372. Mechanism of Acquired Resistance in Tuberculosis.

Robert A. Patnode, Ph. D., Ch. TB Research Lab.; Paul C. Hudgins, Med. Biol., TB Research Lab.; Washington, D.C. (7963)

373. Studies on *In Vitro* Tuberculin Cytolysis.

Bernard W. Janicki, M.A., Bact., TB Research Lab.; Robert A. Patnode, Ph. D., Ch. TB Research Lab.; Paul C. Hudgins, Med. Biol., TB Research Lab.; Washington, D.C. (7965)

374. Study of Pine Pollen Antigen in Tuberculin Positive and Tuberculin Negative Subjects.

Horace W. Bernton, M.D., Phys., Sarcoidosis; Paul Hudgins, Tech., TB Lab; Washington, D.C. (7976)

375. Pathogenesis of Atypical Mycobacteria in Guinea Pigs Under the Influence of Antihistamines.

William H. Feldman, D.V.M., Ch. Lab. Research in Pulm. Diseases, VACO; Robert A. Patnode, Ph. D., Super. Med. Bact., VAH; Washington, D.C. (10608)

376. Studies on Tuberculin Sensitivity in Tissue Culture.

Dorothy H. Heilman, M.D., Med. Bact.; Washington, D.C. (10614)

377. Tissue Culture Studies on Anergy.

Dorothy H. Heilman, M.D., Med. Bact.; Washington, D.C. (10615)

378. A Home Chemotherapy Program.

Nicholas D'Esopo, M.D., Ch. Pulm. Dis. Serv.; West Haven, Conn. (8086)

379. A Study of the Viability of Tubercle Bacilli Recovered From Tuberculous Lesions in the Rabbit.

Nicholas D'Esopo, M.D., Ch. Pulm. Dis. Serv.; Sidney Bernstein, Research Bacteriol.; West Haven, Conn. (8088)

380. Histologic Studies of Pulmonary Tuberculosis Cavities Following Steroid Therapy With Anti-tuberculous Drugs

Raymond Yesner, M.D., Ch. Lab. Serv.; Nicholas D'Esopo, M.D., Ch. Pulm. Dis. Serv.; West Haven, Conn. (8095)

381. Recovery of Tubercle Bacilli From and Trapping of Aerosols by the Benedict-Roth Type of Spirometer.

Sidney Bernstein, Research Bact., Pulm. Dis. Serv.; Robert G. Nims, M.D., Ch. Pulm. Func. Sect.; West Haven, Conn. (9864)

382. Viability of Non-Culturable Tubercle Bacilli From Chemically Treated Pulmonary Tuberculosis on Transplantation With Embryonic Lung Tissue.

Raymond Yesner, M.D., Ch. Lab. Serv.; New Haven, Conn. (9865)

383. Application of Fluorescence Microscopy to Elucidate Tuberculous Origin of Granulomas.

Raymond Yesner, M.D., Ch. Lab. Serv.; George J. Friou, M.D., Ch. Infect. Dis. Sect.; West Haven, Conn. (10306)

384. Populations of *Mycobacterium tuberculosis* in Isoniazid and Streptomycin Resistant Patient Strains.

John Wishart, Research Bact.; Whipple, Ariz. (8101).

385. Temperature and Drug Resistance.

J. Wishart, Research Bact.; Whipple, Ariz. (8218)

386 The Effects of Other Organisms on the *Tubercle Bacillus*.

J. Wishart, Bact.; Whipple, Ariz. (8220)

387. Susceptibility of Tubercle Bacilli to Pyrazinamide.

J. Wishart, Research Bact.; Whipple, Ariz. (8221)

388. Swelling of Acid-Fast Organisms.

A. Daniels, M.D., Act. Ch. Lab. Serv.; J. Wishart, Research Bact.; Whipple, Ariz. (8222)

389. Efficacy of Gastrics in Diagnosis of Tuberculosis.

R. Van Liew, Bact.; A. Daniels, M.D., Ch. Lab. Serv.; J. Wishart, Research Bact.; Whipple, Ariz. (8223)

390. Study of Lesions from Resected Lung Tissue.

R. Van Liew, Bact.; A Daniels, M.D., Ch. Lab. Serv.; J. Wishart, Research Bact.; Whipple, Ariz. (8225)

391. An Investigation of the Reliability of the Niacin Test the Neutral Red Test and the Test for Cord Formation for Differentiation of Group III or "Battey" Strains of Atypical Mycobacteria from Human Tubercle Bacilli.

Marie L. Koch, Ph. D., Ch. Microbiol. Sec., Lab. Serv.; Albert W. Kroll, M.D., Resident in Path., Lab. Serv.; Wood, Wis. (9736)

392. Steroids in the Treatment of Severely Ill Pulmonary Tuberculosis Patients.

Francis B. Landis, M.D., Ch. TB Serv., VAH; George C. Owen, M.D., Cons. Med. TB Serv., VAH, Assoc. Med., Marquette; Richard P. Jahn, M.D., Attend. Med., TB Serv., Asst. Clin. Prof. Med., Marquette; Wood, Wis. (9739)

(b) Other infectious diseases

393. Active and Passive Immunization Against Cryptococcus Neoformans.

Hans H. Gadebusch, M.S., Bact., Coord. Research; Ann Arbor, Mich. (2134)

394. Factors Affecting the Virulence of Cryptococcus Neoformans for Mice.

Hans H. Gadebusch, M.S., Coord. of Research, Research Bact., VAH, Ann Arbor, Mich.; E. Edward Evans, Ph. D., Assoc. Prof. Microbiol., Univ. of Alabama, Birmingham, Ala. (2137)

395. The Cryptococcus Polysaccharide Destroying Enzyme and Its Value in the Treatment of Experimental Cryptococcosis.

Hans. H. Gadebusch, M.S., Coord. of Research, Research Biochem.; Ann Arbor, Mich. (2145)

396. The Chemistry and Structure of *Cryptococcus Neoformans* Capsular Polysaccharide.

Hans H. Gadebusch, M.S., Biochem., Coord. Research; John D. Johnson, Chem.; Ann Arbor, Mich. (8589)

397. Phagocytosis of *Cryptococcus Neoformans* in Anemic Mice.

Hans H. Gadebusch, M.S., Biochem. Coord. Research; Ann Arbor, Mich. (8590)

398. *In Vivo* Production of Staphylocoagulase.

Hans H. Gadebusch, M.S., Bact. Coord. Research; Connie Hertz, M.S., Ch. Bact. Sec.; Ann Arbor, Mich. (8591)

399. Non-Specific Coagulase Inhibitors and Activators.

Hans H. Gadebusch, M.S. Bact. Coord. Research; Ann Arbor, Mich. (8592)

400. Autogenous Vaccine Therapy in Chronic Osteomyelitis.

R. A. Vogel, Prin. Scient., Med. Research; F. Montague, M.D., Senior Resident Surg.; M. E. Collins, Bact. Med. Research; Atlanta, Ga. (2230)

401. Bacteriophage Typing of M. Aureus.

R. A. Vogel, Prin. Scient., Med. Research; J. F. Padula, Bact. Med. Research; Atlanta, Ga. (2238)

402. Hemagglutination Test for Candida Albicans.

R. A. Vogel, Prin. Scient., Med. Research; Atlanta, Ga. (2252)

403. Amphortericin B or Fungizone—Assay in Patients Receiving this Experimental Drug.

James C. Crutcher, M.D., Ch. Med. Serv.; Ralph A. Vogel, Ph.D., Prin. Scient., Mycol. Sect., Med. Research Lab.; Atlanta, Ga. (2253)

404. An Investigation Into the Human and Environmental Factors Which Play a Role in Sustaining Staphylococcal Cross-Infection.

R. A. Vogel, Ph. D., Mycol., Med. Research Lab.; Atlanta, Ga. (8882)

405. Vaccine Therapy in Stephylococcal Infection.

Ralph A. Vogel, Ph. D., Prin. Scient., Mycol. Sect., Med. Research Lab., Marion Johnson, Med. Biol. Tech.; Atlanta, Ga. (8883)

406. Yeast and Fungus Studies.

F. G. Stephens, M.D., Ch. Lab. Serv.; James A. Burroughs Bact. Lab. Serv.; Augusta, Ga. (2310)

407. Drug Resistance of Bacteria among Hospital Patients.

James A. Burroughs, Bact., Lab. Serv.; Augusta, Ga. (8527)

408. Study of the Behavior of Staphylococcus Coagulase Positive Infections.

C. Martin Rhode, M.D., Ch. Surg. Serv.; James A. Burroughs, Bact. Clin. Lab.; Augusta, Ga. (9208)

409. The Study of Controlled Wound Infections.

C. Martin Rhode, M.D., Ch. Surg. Serv.; James A. Burroughs, Bact. Clin. Lab.; Augusta, Ga. (9210)

410. A Capillary Tube Method for the Coagulase Test.

Lewis J. Griffith, Ph. D., Act. Ch. Lab. Serv.; William E. Ostrander, M.S., Bact.; Batavia, N.Y. (2387)

411. The Infection Enhancement Effect of *Micrococcus Pyogenes* Variety *Albus* for Other Infections Due to Gram-Negative Organisms.

Lewis J. Griffith, Ph. D., Act. Ch. Lab. Serv.; William E. Ostrander, M.S., Med. Bact.; Batavia, N.Y. (2388)

412. Immunological Classification of Staphylococci.

Lewis J. Griffith, Ph. D., Act. Ch. Lab. Serv.; William E. Ostrander, M.S., Bact.; Batavia, N.Y. (2389)

413. Phage Recovery from *Pseudomonas Aerusinosa.*

Lewis J. Griffith, Ph. D., Act. Ch. Lab. Serv.; Salvatore A. Denaro, M.S., Bact.; Batavia, N.Y. (2391)

414. A Comparison of the *In Vitro* Effectiveness of Kanamycin and Nine Other Antibiotics against Staphylococci.

Lewis J. Griffith, Ph. D., Act. Ch. Lab. Serv.; William E. Ostrander, M.S., Bact.; Batavia, N.Y. (9307)

415. The Immunological Characteristics of Different Phage Types of Staphylococci.

Lewis J. Griffith, Ph. D., Act. Ch. Lab. Serv.; William E. Ostrander, M.S., Bact.; Batavia, N.Y. (9308)

416. The Use of the Intraperitoneal Route for Implanting Staphylococcus Antigens.

Lewis J. Griffith, Ph. D., Act. Ch. Lab. Serv.; William E. Ostrander, M.S., Bact.; Batavia, N.Y. (9309)

417. The Survival of Staphylococci Implanted Intraperitoneally in Rabbits.

Lewis J. Griffith, Ph. D., Act. Ch., Lab. Serv.; William E. Ostrander, M.S., Bact.; Batavia, N.Y. (9310)

418. Agar Diffusion Precipitation Differences Experienced by Antigens Derived from Different Phage Types of Staphylococci.

Lewis J. Griffith, Ph. D., Act. Ch., Lab. Serv.; William E. Ostrander, M.S., Bact.; Batavia, N.Y. (9311)

419. Passive Protection of Mice Against Staphylococci With Hemologous Rabbit Antisera.

Lewis J. Griffith, Ph. D., Act. Ch., Lab. Serv.; W. E. Ostrander, M.S., Bact.; Batavia, N.Y. (9312)

420. Phagocytosis Studies With Staphylococci Using Immune Sera and Its Fractions.

Lewis J. Griffith, Ph. D., Act. Ch., Lab. Serv.; William E. Ostrander, M.S., Bact.; Batavia, N.Y. (9313)

421. A Comparison of the *In Vitro* Effectiveness of Kanamycin and Five Other Antibacterial Agents Against Common Gram-Negative Rod Pathogens.

Lewis J. Griffith, Ph. D., Act. Ch., Lab. Serv.; William E. Ostrander, M.S., Bact.; Batavia, N.Y. (9314)

422. Study of a Host Factor: Use of Host's Blood for the Preparation of Medium for Antibiotic Sensitivity Testing.

A. Richard Simone, Bact.; Bath, N.Y. (8642)

423. Physiological Properties of Bacterial Microorganisma: A Comparison of Adaptive Enzyme Patterns Formed by Penicillin-Sensitive and Penicillin-Resistant Microorganisms.

A. Richard Simone, Bact.; Bath, N.Y. (8643)

424. Study of the Prophylaxis of Homologous Serum Hepatitis With Gamma Globulin.

George S. Mirick, M.D., Cons., Med. Serv.; Baltimore, Md. (2339)

425. Mechanism of Staphylococcal Dissemination.

Francis O'Grady, M.D., M. Sc., Ch. Microbiol., Air Hygiene; Fern B. Wittstadt, A.B., B.S., Bact.; Baltimore, Md. (9297)

426. Liability of Nasal Carriage of Staph. Pyogenes and Its Relation to Environmental Factors and Antibiotic Resistance.

Francis O'Grady, M.D., M. Sc., Ch. Microbiol., Air Hygiene; Fern B. Wittstadt, A.B., B.S., Bact.; Baltimore, Md. (9298)

427. Cases of Fungus Infection

Beulah M. Hathaway, M.D., Ch. Lab. Serv.; Birmingham, Ala. (2545)

428. Antigenic Studies on Nocardia

Kathleen N. Mason, M.S., Bact., Lab. Serv.; Birmingham, Ala. (2550)

429. Pseudomyxomatous Peritoni from Mucoceles of Appendix.

J. W. Denson, Asst. Ch. Surg. Serv.; T. B. Patton, M.D., Cons., Surg. Serv., VAH, Assoc. Prof. Surg., Med. Coll. of Alabama; Birmingham, Ala. (2619)

430 Utilization of Cobalt^{60} Vitamin B_{12} by *Nocardia*

Kathleen N. Mason, Bact.; William E. Martindale, Biochem., RI Serv.; Birmingham, Ala. (9638)

431. A Study of the Metabolism of APC Virus Infected HeLa Cells in Tissue Culture

Herbert K. Miller, Ph. D., Biochem., Gen. Med. Research Lab.; Bronx, N.Y. (4515)

432. Analysis of Patterns of Bacterial Susceptibility to Certain Antibiotics.

Edith L. Duerr, Ph. D., Ch. Microbiol. Sec.; P. M. Johnson, B.S., Asst. Ch. Microbiol. Sect.; J. S. Tatz, B.S., Asst. Ch. Microbiol. Sect.; Bronx, N.Y. (4572)

433. Criteria for Identification of Mima Polymorpha and Related Species.

Edith L. Duerr, Ph. D., Ch. Microbiol. Sect.; Bronx, N.Y. (4576)

434. Nutritional Requirements of Actinomyces Bovis and Related Organisms.

Edith L. Duerr, Ph. D., Ch. Microbiol. Sect.; Bronx, N.Y. (4577)

435. Gamma Globulin Prophylaxis of Hepatitis.

Edward B. Grossman, M.D., Asst. Ch. Med. Serv.; Bronx, N.Y. (8660)

436. Thrombocytopenic Purpura Associated with Sulfamethoxypyridazine (Kynex) Administration.

Ira Green, M.D., Research Assoc.; Martin Finkel, M.D., Resident, Med. Serv.; Bronx, N.Y. (9051)

437. Treatment of Decubitus Ulcers.

Dr. Andor A. Weiss, Asst. Ch. PMR Serv.; Bronx, N.Y. (9060)

438. Liver Biopsy in Schistosomiasis.

Herman Black, M.D., Ch. Med. Sec. B; Elliott Rosenberg, M.D., Resident, Med.; Bronx, N.Y. (9213)

439. A Simplified Method for the Screening of Sera in the Viral and Rickettsial Complement-Fixation Tests.

J. S. Taz, Asst. Ch. Microbiol. Sec., Lab. Serv.; Bronx, N.Y. (10073)

440. An Improved Antigen for the Amoebic Complement Fixation Test.

Joseph S. Tatz, Asst. Ch. Microbiol. Sec., Lab. Serv.; Bronx, N.Y. (10074)

441. Pigment Production by Pathogenic Micro-organisms of the Pseudomonas Species.

Edith L. Duerr, Ph. D., Ch. Microbiol. Sec., Lab. Serv.; Bronx, N.Y. (10075)

442. Utilization of a Modified Carbohydrate Medium for the Identification of Enteric Micro-organisms.

J. S. Tatz, Asst. Ch. Microbiol. Sec., Lab. Serv.; Bronx, N.Y. (10076)

443. Study of Bacterial Sensitivity to Erythromycin and Other Antibiotics.

P. M. Johnson, B.S., Asst. Ch. Microbiol. Sec., Lab. Serv.; M. Kenney, M.D., Asst. Path., VAH, Manhattan, N.Y.; Bronx, N.Y. (10077)

444. The Keratosis Blennorrhagica and Reiter's Syndromes.

Emory Ladany, M.D., Attend., Med. Serv.; Harry Shatin, M.D., Ch. Derm. Sect., Med.; Bronx, N.Y. (10078)

445. Biochemical Properties of the Meningopneumonitis Virus.

Marianna R. Bovarnick, Ph. D., Biochem.; George Ostroff, M.A., Serol., Lab. Serv.; Brooklyn, NY. (2848)

446. Reversible Inactivation of Typhus Rickettsiae at 36° in the Absence of Substrate.

Marianna R. Bovarnick, Ph. D., Biochem.; Brooklyn, N.Y. (2849)

447. Studies on Gastro-Intestinal Motility.

Sidney M. Fierst, M.D., Attend. VAH, Clin. Assoc. Prof. Med., State Univ. of New York, Coll. of Med. at New York City; James B. Gabriel, M.D., Ch. GI Sect., VAH; Nathan Solomon, Ph. D., Research Asst. in Chem., State Univ. of New York, Coll. of Med. at New York City; Brooklyn, N.Y. (2857)

448. Studies on the Rate of Healing of Peptic Ulcer.

Sidney M. Fierst, M.D., Attend. VAH, Clin. Assoc. Prof. Med., State Univ. of New York, Coll. of Med. at New York City; James B. Gabriel, M.D., Ch. GI Sect., VAH; Nathan Solomon, Ph. D., Research Asst. in Chem., State Univ. of New York, Coll. of Med. at New York City; Brooklyn, N.Y. (2858)

449. Incorporation of Labelled Amino Acids by Typhus Rickettsiae.

Marianna R. Bovarnick, Ph. D., Biochem., VAH; Louis Schneider, B.S., Research Asst., Research Found. of State Univ. of New York; Brooklyn, N.Y. (2954)

450. Incorporation of Labelled Acetate by Typhus Rickettsiae.

Marianna R. Bovarnick, Ph. D., Biochem.; Brooklyn, N.Y. (10798)

451. Hemolytic Properties of Typhus Rickettsiae.

Marianna R. Bovarnick, Ph. D., Biochem.; Louis Schneider, B.S., Research Asst.; Brooklyn, N.Y. (10799)

452. An Echinococcus Abscess of the Liver.

Joseph T. Roberts, M.D., Ch. Card. Sect.; Buffalo, N.Y. (3007)

453. Staphylococcal Infections in the Hospital.

Nat Minsley, B.S., Bact.; John Sheffer, M.D., Ch. Lab. Serv.; William M. Chardack, M.D., Ch. Surg. Serv.; Andrew A. Gage, M.D., Staff Surg.; Buffalo, N.Y. (3015)

454. Pulmonary Mycoses.

Archibald C. Cohen, M.D., Ch. TB Serv.; Florence S. Jenney, M.D., Ch. Lab. Serv.; Butler, Pa. (3035)

455. The Effect of Anti-Penicillinase on Penicillin-Resistant Organisms.

A. Somberg, M.D., Asst. Ch., Med. Serv.; V. Yakulis, B.S., Serol., Research Lab.; C. Lemke, M.S., Bact., Clin. Lab.; Chicago (W.S.), Ill. (3734)

456. Evaluation of Two New Drugs.

M.W. Lepper, M.D., Attend. Phys., VAH, Prof. Prevent. Med., Univ. of Illinois Coll. of Med.; A. Somberg, M.D., Asst. Ch. Med. Serv.; Chicago (W.S.), Ill. (8537)

457. Tetanus Antibody Titers in Subjects Previously Immunized.

Melvin I. Gibbel, M.D., Ch. Surg. Serv.; Milton L. Goldberg, M.D., Asst. Ch., Surg. Serv.; Arnold B. Swerdlow, M.D., Resident, Surg. Serv.; Vincent J. Yakulis, B.S., Serol. Research Lab.; Chicago (W.S.), Ill. (9364)

458. Hospital Problems With Resistant Staphylococcus Aureus.

Bernard Chomet, M.D., Ch. Lab. Serv.; Simon J. Ramah, M.D., Resident, Path.; Chicago (W.S.), Ill. (9365)

459. Pulmonary Granuloma Due to Brucellosis.

Simon J. Ramah, M.D., Resident, Path.; Bernhard Chomet, M.D., Ch. Lab. Serv.; James S. McLean, M.D., Resident, Surg. Serv.; Catherine Lemke, B.S., Bact., Clin. Lab.; Chicago (W.S.), Ill. (9366)

460. Culture To Determine Normal Yeast Flora Particularly the Various Species of Candida.

Gerald L. Baum, M.D., Asst. Dir. Prof. Serv. for Research, Ch. Pulm. Disease; Cincinnati, Ohio. (10379)

461. Determine the Effect of Repeated Injections of Candida Albicans Fragmented on White Blood Cells of Rats.

Gerald L. Baum, M.D., Asst. Dir. Prof. Serv. for Research, Ch. Pulm. Disease; Cincinnati, Ohio. (10380)

462. Determine the Effect of Various Bird Manure on the Growth of Histoplasma Capsulatum in Soil.

Gerald L. Baum, M.D., Asst. Dir. Prof. Serv. for Research, Ch. Pulm. Disease; Cincinnati, Ohio. (10381)

463. The Immunological Aspects of Trichinosis in Swine.

William J. Winter, M.D., Attend. Sp. Path., VAH, Assoc. Prof. Path., Univ. Miami Sch. Med.; Walter J. Beck, Ph. D., Asst. Prof. Bact., Univ. Miami Sch. Med.; George T. Lewis, Ph. D., Cons. RI Biochem., VAH, Chm. and Prof., Dept. Biochem., Univ. Miami Sch. Med.; Coral Gables, Fla. (3205)

464. Hypodermic Injections: A Bacteriologic Study.
James Taguchi, M.D., Ch. Card. Sect.; Dayton, Ohio. (3378)

465. Evaluation of Plastic Drapes in Operating Room.
Richard J. Ireton, M.D., Ch. Surg. Serv.; Dayton, Ohio. (12050)

466. Amebic Granuloma Simulating Carcinoma in the Rectum.
Antonio Mannarino, M.D., Resident; Dayton, Ohio. (12054)

467. Chemotherapy of Experimental Nocardiosis in Mice.
J. L. Tong, Ph. D., Ch. TB Research, VAH; W. DuChemin, Med.Student, Univ. of Colorado Sch. Med.; Denver, Colo. (3475)

468. Effect of Hypothermia on Bacterial Infection.
B. Eiseman, M.D., Ch. Surg. Serv.; Denver, Colo. (3482)

469. Bacteriophage Typing of Staphylococcus Aureus.
J. L. Tong, Ph. D., Ch. TB Research; J. Weber, Research Tech.; Denver, Colo. (9438)

470. The Pathogenesis of Fungus Disease.
Roger D. Baker, M.D., Ch. Lab. Serv.; Ernest W. Chick, M.D., Clin. Invest.; Durham, N.C. (3862)

471. Infection, Leukemia, and Properdin.
Ernest W. Chick, M.D., Clin. Invest.; Durham, N.C. (9488)

472 The Effect of Amphotericin B on Experimental Mucormycosis (*Rhizopus Oryzae* infection) in Rabbits.
Ernest W. Chick, M.D., Clin. Invest., VAH; John H. Evans, M.D., Senior Med. Stud., Duke Med. Cent.; Roger D. Baker, M.D., Ch. Lab. Serv., VAH; Durham, N.C. (9489)

473 Respiration and Glycolysis in *Rhizopus Oryzae.*
Glen R. Gale, Ph. D., Pharm.; Durham, N.C. (9504)

474. Treatment of Experimental Aspergillosis with Amphortericin B.
Roger D. Baker, M.D., Ch. Lab. Serv., VAH; John H. Evans, M.D., Sr. Med. Student, Duke Med. Center; Durham, N.C. (9505)

475. Effect of Steroids on Experimental Mucormycosis in Rabbit Corneas.
C. Gonzales, M.D., Res. Ophthal.; Glen R. Gale, Ph. D., Pharm.; Durham, N.C. (9506)

476 The Effects of Amphotericin B, Nystatin, and other Drugs on the Metabolism of *Rhizopus Oryzae.*
Glen R. Gale, Pharm.; Durham, N.C. (9507)

477 The Effects of Fludrocortisone on the Respiration, Growth and Morphology of *Rhizopus Oryzae.*
Glen R. Gale, Pharm.; Durham, N.C. (9508)

478. Investigation on Use of Sanitize.
Stephen LoVerme, M.D., Staff Surg.; East Orange, N.J. (8910)

479. A Rapid Anti-microbial Sensitivity Test Using Oxidation Reduction Indicator Resazurin.
Royal H. Sorensen, Bact.; Fresno, Calif. (4100)

480. Serum Protein Changes in Pulmonary Solitary Nodules.

Stephen Cheu, M.D., Act. Ch., Med. Serv.; Royal H. Sorensen, Bact.; Fresno, Calif. (9431)

481. Resistance of Parasitic and Saprophytic Phase of C. Immitis to Physical Environment.

Norman Ende, M.D., Ch. Lab. Serv.; Royal H. Sorensen, Bact.; Fresno, Calif. (9432)

482. The Possibility of Aerial Infection of Mice by Spraying Body Fluids Containing Coccidioidomycosis Spherules into the Air they Breathe.

Norman Ende, M.D., Ch. Lab. Serv.; Royal H. Sorensen, Bact.; Fresno, Calif. (9433)

483. Treatment of Coccidioidomycosis with Amphotericin-B.

Stephen Cheu, M.D., Act. Ch., Med. Serv.; Fresno, Calif. (9434)

484. Bacteriological Evaluation of Various Surgical Preps.

Robert F. Linnemeyer, M.D., Ward Phys. Surg. Serv.; Grand Junction, Colo. (10144)

485. Measurement of "Liver Mass" and Effective Liver Blood Flow in Patients with Various Liver Diseases.

Sheldon Waldstein, M.D., Attend. Phys., Cook County Hosp., Chicago; Lionel M. Bernstein, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research, VAH; Marvin Rohmsdal, M.D., Resident, Surg. Serv.; Norris Dougherty, M.D., Resident, Med. Serv.; Lyle A. Baker, M.D., Ch. Med. Serv.; Hines, Ill. (4206)

486. Development and Clinical Evaluation of Diagnostic Methods for the Study of Antiviral Substances on the Agents of Serum Hepatitis and Infectious Hepatitis.

Hugh D. Bennett, M.D., Ch. Med. Serv., VAH; Benjamin A. Rubin, Ph. D., Asst. Prof. Public Health and Preventive Med., Baylor Univ.; Houston, Tex. (4348)

487. The Synthesis of Biquinones for Evaluation of Their Biologic Activity.

Joseph D. Edwards, Jr., Ph. D., Super. Biochem.; Jesse L. Cashaw, M.S., Biochem.; Houston, Tex. (4366)

488. A Study to Determine the Mode of Action of ACTH in Pepatitis Patients.

Hugh D. Bennett, M.D., Ch. Med. Serv.; Houston, Tex. (4378)

489. Incidence and Characteristics of Shigellosis and Salmonellosis in Later Adult Life.

George M. Lyon, M.D., Dir. Prof. Serv.; Arthur J. Beaumont, B.S., Ch. Clin. Microscopy and Microbiol. Unit, Lab. Serv.; Huntington, W. Va. (4813)

490 Physiological Studies of *Histoplasma Capsulatum.*

Robert G. Garrison, Ph. D., Bact.; Loyd W. Hedgecock, Ph. D., Research Bact., Research Lab.; Kansas City, Mo. (9605)

491. An Investigation of Methods Suitable for the Fractionation of Crude Histoplasmosis Antigen into its Immunologically Active Components.

Douglas C. Heiner, M.D., Asst. Prof. Pediatrics, Univ. of Arkansas Sch. of Med.; Eugene J. Towbin, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research, VAH; Little Rock, Ark. (5068)

492. Postoperative Surgical Infections.

Charles W. McLenathen, M.D., Ch. Gen. Surg. Sec.; Joseph J. Spaniac, M.D., Resident, Surg. Serv.; Long Beach, Calif. (10712)

493. Prophylaxis of Bacteriological Complications of Influenza.

Sydney M. Finegold, M.D., Ch. Chest and Infect. Diseases; William L. Hewitt, M.D., Attend. Med., VAC, Prof. Med., Univ. of California at Los Angeles Med. Center; Los Angeles, Calif. (5709)

494. Laboratory and Clinical Study of Kanamycin.

Sydney M. Finegold, M.D., Ch. Chest Infect. Diseases, VAC; William L. Hewitt, M.D., Attend. Spec. Med., VAC, Prof. Med., Univ. of California at Los Angeles Med. Cen.; Los Angeles, Calif. (5726)

495. Laboratory and Clinical Investigation of Triacetyl Oleandomycin.

William L. Hewitt, M.D., Attend. Med., VAC, Prof. Med., Univ. of California at Los Angeles Med. Center; Sydney M. Finegold, M.D., Ch. Chest and Infect. Diseases, VAC; Lucian B. Guze, M.D., Clin. Invest.; Los Angeles, Calif. (5728)

496. Epidemiology and Prevention of Staphylococcal Infections in the Hospital.

S. M. Finegold, M.D., Sec. Ch. Med.; William L. Hewitt; Los Angeles, Calif. (5733)

497. Clinical and Laboratory Evaluation of Novobiocin.

Samuel I. Roth, M.D., Clin. Instr. Med., Univ. of California at Los Angeles Med. Center; Sydney M. Finegold, M.D., Ch. Infect. Diseases, VAC; William L. Hewitt, M.D., Attend. Spec. Med., VAC, Prof. Med., Univ. of California at Los Angeles; Los Angeles, Calif. (5641)

498. Gram-Negative Bacteremias: Clinical and Laboratory Features.

Sydney M. Finegold, M.D., Ch. Chest and Infect. Dis.; William L. Hewitt, M.D., Attend. Spec. Med., VAC, Prof. Med., Univ. of California at Los Angeles Med. Cen.; Los Angeles, Calif. (5642)

499. Studies on Bacteroides: Evaluation of Method for Optimum Growth, Preservation of Stock Cultures of Eomycin, Paromomycin and Kanamycin in a Selective Medium.

Sydney M. Finegold, M.D., Ch. Chest and Infect. Dis., VAC; William L. Hewitt, M.D., Attend. Spec. Med., VAC, Prof. Med. Univ. of California at Los Angeles Med. Cen.; Los Angeles, Calif. (5643)

500. Clinical Features of Bacteroides Infections

Sydney M. Finegold, M.D., Ch. Chest and Infect. Dis., VAC; William H. Hewitt, M.D., Attend. Spec. Med., VAC, Prof. Med. Univ. of California at Los Angeles Med. Cen.; Los Angeles, Calif. (5644)

501. Studies on Intestinal Sterilization with Emphasis on Prolonged Suppression of the Intestinal Flora.

William L. Hewitt, M.D., Attend. Med., VAC, Assoc. Prof. Med., Univ. of California at Los Angeles; S. M. Finegold, M.D., Sec. Ch. Med., VAC; Los Angeles, Calif. (5865)

502. Epidemiology and Prevention of Gram-Negative Bacillary Infections in the Hospital Environment

Sydney M. Finegold, M.D., Ch. Chest and Infect. Dis.; William L. Hewitt, M.D., Attend. Spec. Med., VAC, Prof. Med., Univ. of California at Los Angeles Med. Cen.; Los Angeles, Calif. (8435)

503. Comparison of Oral Kanamycin with Oral Neomycin for Intestinal Antisepsis Preoperatively.

Sydney M. Finegold, M.D., Ch. Chest and Infect. Dis.; Lucien B. Guze, M.D., Clin. Invest.; James S. Clarke, M.D., Ch. Surg. Serv.; Virginia Kvinge, M.D., Sr. Resident in Med.; Los Angeles, Calif. (8437)

504. Observations of the Treatment of Chronic Pyelonephritis With Methionine and Mandelic Acid. A Pilot Study.

Lucien B. Guze, M.D., Clin. Invest., VAC; Charles R. Kleeman, M.D., Ch. Metab. Sect., VAC; Charles Gelbach, M.D., Sr. Med. Stu., Univ. of California at Los Angeles Med. Cen.; Los Angeles, Calif. (8442)

505. Pilot Clinical Investigation of Telomycin

Sydney M. Finegold, M.D., Ch. Chest and Infect. Dis.; Lucien B. Guze, M.D., Clin. Invest.; Akira Nishizawa, M.D., Resident Med.; Virginia E. Kvinge, M.D., Resident Med.; Los Angeles, Calif. (8843)

506. Observations on the Association of Hypertension and Experimental Pyelonephritis.

Lucien B. Guze, M.D., Clin. Invest.; Los Angeles, Calif. (8444)

507. Evaluation of Sulfadimethoxine (Madribon).

Sydney M. Finegold, M.D., Ch. Chest and Infectious Dis.; Wm. L. Hewitt, M.D., Attend. Sp. Med.; Lucien B. Guze, M.D., Clin. Invest.; Virginia E. Kvinge, M.D., Resident Med.; Los Angeles, Calif. (8844)

508. Aspergillosis.

Sydney M. Finegold, M.D., Ch. Chest and Infectious Dis.; John F. Murray, M.D., Instr. Med., Univ. California at Los Angeles Med. Center; Los Angeles, Calif. (8846)

509. Nocardiosis.

John F. Murray, M.D., Instr. Med., Univ. California at Los Angeles Med. Center; Sydney M. Finegold, M.D., Ch. Chest and Infectious Dis., VAC; Los Angeles, Calif. (8847)

510. The Effect of Antibacterial Therapy on the Incidence and Morbidity of Urinary Tract Infection Associated With Transurethral Prostatectomy.

Lucien B. Guze, M.D., Clin. Invest.; Donald E. Burke, M.D., Phys.; Sydney M. Finegold, M.D., Ch. Chest and Infectious Dis.; Wm. L. Hewitt, M.D., Attend. Sp. Med.; Los Angeles, Calif. (8850)

511. Clinical Evaluation of Griseofulvin.

Edwin T. Wright, M.D., Sec. Ch., Derm., VAC; Thomas H. Sternberg, M.D., Sr. Cons. Derm., VAC, and Prof. of Med. (Derm.), UCLA-Med. Cent.; Victor D. Newcomer, M.D., Attend. Spec. Derm., VAC, Assoc. Prof. Med. (Derm.), UCLA-Med. Cent.; Los Angeles, Calif. (9161)

512. Coccidioides Immitis in Vitro Spherules and Protection From Coccidioidomycosis.

A. M. Breslau, M.A., Hist.; Sydney M. Finegold, M.D., Ch. Chest and Infect. Dis.; John O. Erickson, Ph. D., Biophy.; Los Angeles, Calif. (9164)

513. Clinical Investigation of Grifulvin (Griseofulvin).

Sydney M. Finegold, M.D., Ch. Chest and Infect. Dis.; Los Angeles, Calif. (9165)

514. Pulmonary Cryptococcosis With Spontaneous Recovery: A Case Report.

Sydney M. Finegold, M.D., Ch. Chest and Infect. Dis.; Akira Nishizawa, M.D., Sr. Resident Med.; Los Angeles, Calif. (9166)

515. Clinical Appraisal of DMM Tetracycline.

Sydney M. Finegold, M.D., Ch. Chest and Infect. Dis.; Zoya Kudinoff, M.D., Sr. Resident Med.; Los Angeles, Calif. (9167)

516. Laboratory and Clinical Study of Colimycin.

William L. Hewitt, M.D., Attend. Spec. Med., VAC, and Prof. Med., UCLA-Med. Cent.; Sydney M. Finegold, M.D., Ch. Chest and Infect. Dis., VAC; Lucien B. Guze, M.D., Clin. Invest.; Zoya Kudinoff, M.D., Sr. Resident Med.; Los Angeles, Calif. (9168)

517. Clinical Appraisal of Pyrrolidino-Methyl Tetracycline.

Sydney M. Finegold, M.D., Ch. Chest and Infect. Dis.; Virginia Kvinge, M.D., Sr. Resident in Med.; Los Angeles, Calif. (9174)

518. Phenylethyl Alcohol as an Inhibitory Medium in the Study of Bacterial Sensitivity.

Bruce E. Rawlings, B.S., Ch. Bact. Dept.; Marie T. Esselmann, B.S., Med. Tech., Bact. Dept.; Louisville, Ky. (5429)

519. Sera—Reference Venereal Disease Research Laboratory Complement-Fixation Tests.

Bruce E. Rawlings, B.S., Ch. Bact. Dept.; Marie T. Esselmann, B.S., Med. Tech., Bact. Dept.; Louisville, Ky. (5431)

520. Evaluation of Therapy for Systemic and Dermal Blastomycoses.

Daniel N. Pickar, M.D., Asst. Ch. Med. Serv.; Louisville, Ky. (5466)

521. Pulmonary Abscess: A Review of 70 Cases.

Daniel N. Pickar, M.D., Asst. Ch. Med. Serv.; William F. Ruoff, M.D., Resident Med.; Louisville, Ky. (5470)

522 Phenylethyl-Alcohol Medium and *In Vitro* Antibiotic Sensitivities of Gram-Negative and Gram-Positive Bacteria in Mixed Infections of the Genito-Urinary Tract

Lillian M. Page, M.S., Research Tech. (Bact.); Bruce E. Rawlings, B.S., Ch. Bact., Lab. Serv.; Marie T. Esselmann, B.S., Med. Tech. (Serol.); Louisville, Ky. (10746)

523. Use of the Complement Fixation Test As an Aid in the Diagnosis of Amoebiasis, Histoplasmosis, and Blastomycosis.

Marie T. Esselmann, B.S., Med. Tech. (Serol.); Bruce E. Rawlings, B.S., Ch. Bact.; Louisville, Ky. (10749)

524. A Correlation of Timed Vital Capacity Measurement With Varieties of Clinical States and With Other Ventilatory Tests.

J. Richard Johnson, M.D., Ch. Pulm. Dis. Sect.; Madison, Wis. (5523)

525. Studies on the *In Vitro* Growth of the Bimorphic Fungus, *Coccidioides immitis*.

Elsie M. Lapinski, Ph. D., Asst. Ch. Lab. Serv.; Madison, Wis. (5566)

526. Studies on Factors Influencing Pathogenicity of *Micrococcus pyogenes* var *aureus*.

Elsie M. Lapinski, Ph. D., Asst. Ch. Lab. Serv.; Madison, Wis. (5567)

527. Immunochemical Effects of Sarcoidosis.

J. Richard Johnson, M.D., Ch. Pulm. Disease Sect.; Benton C. Taylor, M.D., Staff Phys.; Madison, Wis. (10416)

528. Bacterial and Mycotic Flora of Sputum from Pulmonary Emphysema Patients.

Elsie M. Lapinski, Ph. D., Asst. Ch. Lab. Serv.; Edna M. Cree, M.D., Dir. Pulm. Func. Lab.; Madison, Wis. (10417)

529. Identification of Types of Staphylococcus (Pyogenes) Aureus by Electrophoretic Patterns.

Moses Kopel, M.D., Ch. Lab. Serv.; Walter H. Ordway, Bact.; Joan Meserve, Research Bact.; Manchester, N.H. (10843)

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530. Proposed Study of Housekeeping and Other Procedures on the Bacterial Flora of Hospital Wards.

Henry Field, Jr., M.D., Ch. Med. Serv.; George A. Chapman, M.D., Ward Phys., Med. Serv. Percy E. Schools, Jr., M.D., Ward Phys., Med. Serv.; Martinsburg, W. Va. (10812)

531. Antibiotic and Chemotherapy of Cryptococcosis and Cocoidioidomycosis.

Wheelan D. Sutliff, M.D., Ch. Infect. Disease Sect.; Memphis, Tenn. (5954)

532. Isolation of a Strain of Chick Embryo Cells in Tissue Culture.

Wolcott B. Dunham, M.D., Asst. Dir. Prof. Serv. for Research, Dir. Med. Research Lab.; Frances M. Ewing, Tech., Virus-Tissue Culture Sect., Med. Research Lab.; Malcolm V. Parker, M.S., Tech., Virus-Tissue Culture Sec., Med. Research Lab.; Memphis, Tenn. (5960)

533. Specific Antiviral Therapy.

Wheelan D. Sutliff, M.D., Ch. Infect. Disease Sec., Med. Serv.; Memphis, Tenn. (5978)

534. Free-Living Protozoa as Possible Hosts for Poliovirus.

Malcolm V. Parker, M.S., Tech., Virus-Tissue Culture Sect., Med. Research Lab.; Wolcott B. Dunham, M.D., Asst. Dir. Prof. Serv. for Research, Dir. Med. Research Lab.; Memphis, Tenn. (6005)

535. Propagation of Poliovirus in Chick Embryo Cell Cultures.

Wolcott B. Dunham, M.D., Asst. Dir. Prof. Serv. for Research, Dir. Med. Research Lab.; Frances M. Ewing, Tech., Virus-Tissue Culture Sect., Med. Research Lab.; Malcolm V. Parker, M.S., Tech., Virus-Tissue Culture Sect., Med. Research Lab.; Memphis, Tenn. (6006)

536. Muscle Biopsy as a Diagnostic Measure in Sarcoidosis.

John C. Larkin, M.D., Asst. Ch. Pulm. Disease Serv.; Memphis, Tenn. (6009)

537. Attempts to Cultivate Poliovirus in Parakeet Embryo Cell Cultures.

Wolcott B. Dunham, M.D., Asst. Dir. Prof. Serv. for Research; Frances M. Ewing, Tech., Virus-Tissue Culture Sec., Med. Research Lab.; Memphis, Tenn. (6017)

538. Chemotherapy and Antibiotic Therapy of Infections Due to Resistant Strains of *Micrococcus pyogenes aureus*.

Wheelan D. Sutliff, M.D., Ch. Infect. Dis. Sect.; Memphis, Tenn. (6026)

539. *Allescheria Boydii* as a Cause of Secondary Lung Infection.

Richard E. Travis, M.D., Staff Phys., Pul. Disease Serv.; Elizabeth W. Ulrich, M.T., Tech., Bact. Sec. Lab. Serv.; Memphis, Tenn. (6027)

540. Stability of Amphotericin B Solutions.

Hans N. Naumann, M.D., Ch. Biochem. Sec., Lab. Serv.; Wheelan D. Sutliff, M.D., Ch. Infect. Disease Sect. Med. Serv.; Memphis, Tenn. (10479)

541. Agglutination Titres in Salmonellosis.

Loyal S. Suter, M.S., Ch. Bact. Sec., Lab. Serv.; Elizabeth W. Ulrich, M.T., Tech., Bact. Sect., Lab. Serv.; Memphis, Tenn. (10493)

542. Study of Staphylococcal Infections in "Clean" Operative Cases.

Ralph F. Bowers, M.D., Ch. Surg. Serv.; Memphis, Tenn. (10490)

543. Agglutination Titres in Salmonellosis.

Loyal S. Suter, M.S., Ch. Bact. Sec.; Elizabeth W. Ulrich, M.T., Tech. Bact. Sect.; Memphis, Tenn. (10493)

544. Studies on *Bacterium anitratum.*

Loyal S. Suter, M.S., Ch. Bact. Sec.; Elizabeth W. Ulrich, M.T., Tech. Bact. Sect.; Memphis, Tenn. (10494)

545. Antibody Response in Mice Infected with *Cryptococcus neoformans.*

Loyal S. Suter, M.S., Ch. Bact. Sect.; Memphis, Tenn. (10495)

546. The Use of Inhibition Tests to Determine the Nature of *Histoplasma Capsulatum* Serological Antigens.

Sara C. McDearman, Ph. D., Ch. Serol. Sect.; Memphis, Tenn. (10496)

547. Evaluation of the Hemagglutination Test for Histoplasmosis.

Sara C. McDearman, Ph. D., Ch. Serol. Sect.; Memphis, Tenn. (10497)

548. Clinical Trial of New Therapeutic Agents.

Wendell H. Hall, M.D., Ph. D., Ch. Lab. Serv.; Horace H. Zinneman, M.D., Ch. Blood Transfusion Sect.; Minneapolis, Minn. (6158)

549. The Production of Immunologic Paralysis with Bacterial Antigens.

Wendell H. Hall, M.D., Ph. D., Ch. Lab. Serv.; Horace H. Zinneman, M.D., Ch. Blood Transfusion Sect.; Harry Glenchur M.D., USPHS Research Fellow, VAH, Instr. Med. Univ. of Minnesota; Minneapolis, Minn. (6161)

550. Effects of Several Antibiotics on Staphylococci.

Wendell H. Hall, M.D., Ph. D., Ch. Lab. Serv.; Harold J. Elliott, B.A., Bact.; Minneapolis, Minn. (6162)

551. Bacteremia After Urethral Instrumentation.

Wendell H. Hall, M.D., Ph. D., Ch. Lab. Serv.; Harry Glenchur, M.D., USPHS Research Fellow, VAH, Instr. Med., Univ. of Minnesota; Roger V. Haglund, M.D., Resident, Urol. Sect.; Julian S. Ansell, M.D., Ch. Urol. Sect.; Minneapolis, Minn. (6167)

552. Nocardia.

Wendell H. Hall, M.D., Ph. D., Ch. Lab. Serv.; Frances Casey, B.S., Bact.; Minneapolis, Minn. (6174)

553. Penicillin V and Other Antibiotics in Infectious Diseases.

Wendell H. Hall, M.D., Ph. D., Ch. Lab. Serv.; Harold J. Elliott, B.A., Bact., VAH; Bruce Warren, Ph. D., Med. Student, Univ. of Minnesota Med. Sch.; Minneapolis, Minn. (6175)

554. Study of Drug Susceptibility of Proteus Species.

Wendell H. Hall, M.D., Ph. D., Ch. Lab. Serv.; Robert E. Manion, B.E., Bact.; Minneapolis, Minn. (6181)

555. Complete and Incomplete Antibodies in Brucellosis, and Their Distribution Within the Human Serum.

Horace H. Zinneman, M.D., Ch. Blood Transfusion Sect., Minneapolis, Minn. (6189)

556. Research on Penicillin and Other Antibiotics.

Wendell H. Hall, M.D., Ph. D., Ch. Lab. Serv.; Herbert Blough, M.D., Resident Med.; Harold J. Elliott, B.S., Bact., VAH, Leland Hong, B.S., Junior Scien., Univ. of Minnesota; Minneapolis, Minn. (8595)

557. The Efficacy of Dithiazanine Iodide (Delvex) Against Pinworm Infection.

Arthur I. Sanders, B.A., Parasitol.; Franklin G. Wallace, M.A., Ph. D., Attend. Parasitol., VAH, and Assoc. Prof. of Zool., Univ. of Minnesota; Minneapolis, Minn. (8602)

558. Bacteriological Study of Genus Kurthia.

Harry R. Elston, M.S., Bact., Mountain Home, Tenn. (5337)

559. Bacteriological Study of Genus Herellea.

Harry R. Elston, M.S., Bact., Mountain Home, Tenn. (5338)

560. Study of the Therapeutic Effectiveness of a New Anthelmintic.

John P. Muhleisen, M.D., Ch. GI Serv., New Orleans, La. (6389)

561 Clinical Study of a Patient with a Rare Form of Madura Foot caused by *Monosporium Apiospermum*

Howard A. Buechner, M.D., Ch. Med. Serv.; DeWitt T. Baker, M.D., Ch. Allergy and Derm. Sec.; New Orleans, La. (6397)

562. Pathology of Experimental Melloidosis.

Philip Pizzolato, M.D., Asst. Ch. Lab. Serv.; Joseph Ziskind, M.D., Ch. Lab. Serv.; Elsie E. Buff, Bact.; New Orleans, La. (6409)

563. Pathology of Experimental Nocardiosis.

Philip Pizzolato, M.D., Asst. Ch. Lab. Serv.; Joseph Ziskind, M.D., Ch. Lab. Serv.; Elsie E. Buff, Bact.; New Orleans, La. (6411)

564. A Study of Sources of Bacterial Infection in a Surgical Service.

Edward L. Burke, M.D., Asst. Ch. Surg. Serv.; Elsie E. Buff, Bact. Clin. Lab. Serv.; New Orleans, La. (6433)

565. Effects of Cortisone in Mantoux-Negative Individuals.

Paul T. Egidio, M.D., Ch. Med. Serv.; Leo S. Palitz, M.D., Cons. TB; Northport, N.Y. (8389)

566. Phosphorylation and Its Relationship to Phagocytosis.

Andrew Kuna, Ph. D., Biochem.; John J. Scimone, B.S., Bact.; Northport, N.Y. (10190)

567. Effect of Amphotericin B on the Metabolism of Cryptococcus Neoformans.

E. B. Rhoades, M.D., Resident Phys.; Harold G. Muchmore, M.D., Clin. Invest.; Oklahoma City, Okla. (6871)

568. Survey of Staphylococcus Strains Found in Hospital Patients and Personnel.

Harold G. Muchmore, M.D., Clin. Invest.; Jerry Cotner, B.S., Stud.; Jimmy Strange, B.S., Stud.; Everett B. Rhoades, M.D., Resident Med.; James F. Hammarsten, M.D., Ch. Med. Serv.; Frances G. Felton, Ph. D., Ch. Clin. Lab.; Oklahoma City, Okla. (6872)

569. Bacteriophage Type and Antibiotic Resistance of Coagulase Producing Staphylococci.

Florence C. Kelly, Ph. D., Cons. Microbiol., VAH, Prof. of Microbiol., Oklahoma Univ. Med. Sch.; Harold G. Muchmore, M.D., Clin. Invest., VAH; James F. Hammarsten, M.D., Ch. Med. Serv.; Frances G. Felton, Ph. D., Ch. Clin. Lab.; E. B. Rhoades, M.D., Resident Phys.; Oklahoma City, Okla. (6873)

570. Rapid Diagnostic Tests for Viral Diseases.

Frances G. Felton, Ph. D., Ch. Clin. Lab.; Lawrence V. Scott, Sc. D., Cons. Phys.; Oklahoma City, Okla. (6887)

571. Listeriosis Infections in Man.

Harold G. Muchmore, M.D., Clin. Invest.; Frances G. Felton, Ph. D., Ch. Clin. Lab.; C. C. Baker, M.D., Resident Phys.; Oklahoma City, Okla. (9992)

572. Rocky Mountain Spotted Fever in Oklahoma.

Harold G. Muchmore, M.D., Clin. Invest.; Walter Camp, M.D., Resident Phys.; Oklahoma City, Okla. (9993)

573. Effect of Amphotericin B on Kidney Function.

Earl Ginn, M.D., Resident Phys.; James F. Hammarsten, M.D., Ch. Med. Serv.; Harold G. Muchmore, M.D., Clin. Invest.; E. H. Rhoades, M.D., Resident Phys.; William O. Smith, M.D., Assist. Ch. Rdio. Serv., VAH; Oklahoma City, Okla. (9994)

574. Experimental Production of Acute and Chronic Bronchitis in Laboratory Animals.

John E. Rayl, M.D., Asst. Ch. Surg. Serv.; Oteen, N.C. (6691)

575. Study of the Control of Staphylococcus Infections.

James S. Deakins, M.D., Ch. Orth. Sect.; Leah R. Ghitter, B.S., Bact. Med. Research Lab.; Harvey T. Pullen, M.D., Resident, Med. Serv.; Paul E. Maust, M.D., Resident, Surg. Serv., VAH; Stuart Mudd, M.D., Ch. Med. Microbiol. Dept., Univ. of Pennsylvania Sch. of Med.; Philadelphia, Pa. (9931)

576. A Comparison of the Efficacy of Lyophilized as Compared With Freshly Prepared Liquid Phage.

Stanley W. Wolfson, B.S., Bact. Med. Research Lab.; Leah R. Ghitter, B.S., Bact. Med. Research Lab.; Philadelphia, Pa. (9932)

577. A Study for the Evaluation of a Technique Designed To Reduce Staphylococcal Infections on the General Surgical Service.

Robert Schlitt, M.D., Asst. Ch. Surg. Serv.; Oscar Serlin, M.D., Ch. Surg. Serv.; Philadelphia, Pa. (9933)

578. A Study of the Serological Properties of the Intestinal Flora of Schizophrenics.

Paul F. Kost, M.D., Ph. D., Ch. PMR; Albert Martin, Jr., Ph. D., Microbiol.; Pittsburgh (Leech Farm Rd.), Pa. (6997)

579. Serologic Identification of Selected Species of Pathogenic Bacteria.

Albert Martin, Jr., Ph. D., Microbiol.; Pittsburgh (Leech Farm Rd.), Pa. (6999)

580. Investigation of Lethal Effect of Ultraviolet Light Upon Trichophyton Rubrum After Exposure of the Organism to Various Photo-Sensitizing Agents of the Furo-Coumarin Group.

V. E. Mikkelson, M.D., Resident, PMR; E. W. Fowlks, M.D., Ch. PMR; D. G. Griffith, Med. Stud., Univ. of Oregon Med. Sch. and VAH; Portland, Oreg. (9222)

581. Isolation of Viruses by Tissue Culture and Chick Embryo Methods.

Helen Seraichekas, Bact.; Providence, R.I. (7164)

582. Bacteriological Study of Polyethylene Catheters Which Have Been Placed for Intravenous Fluid Therapy.

John D. Eyre, M.D., Act. Ch., Med. Serv.; Roswell W. Phillips, M.D., Ch. Med. Serv.; Bernard J. Mulligan, Bact.; Providence, R.I. (7170)

583. Drug Resistant Strains of Pseudomonas.

Helen Seraichekas, Bact.; Providence, R.I. (10151)

584. Bacteriophage Typing of Staphylococci.

Abraham L. Rosenzweig, Bact.; Richmond, Va. (7219)

585. Value of Reiter Protein Complement Fixation Test.

Abraham L. Rosenzweig, Bact.; Richmond, Va. (7221)

586. Analysis of the Penicillin Susceptible Population in Strains of "Penicillin Resistant" *Staphylococcus aureus* Recovered From Blood Cultures.

Kameron W. Maxwell, B.S., Clin. Bact.; Ralph A. Knight, Ph. D., Research Bact.; Terence H. Cochran, M.D., Ch. Path. Serv.; H. Wm. Harris, M.D., Ch. Pulm. Dis. Serv.; Salt Lake City, Utah. (7292)

587. Skin Test Activity of Specific Fungal Polysaccharides.

Ralph A. Knight, Ph. D., Research Bact., VAH; Stanley Marcus, Ph. D., Prof. of Bact., Univ. of Utah Coll. of Med.; Salt Lake City, Utah (7301)

588. The Incidence of Toxoplasmosis in Utah.

Ralph A. Knight, Ph. D., Research Bact.; Salt Lake City, Utah (10518)

589. Antimicrobial Activity of Esters of Para-Hydroxybenzoic Acid (Parabens).

Milton Huppert, Ph. D., Ch., Mycol. Research Lab.; Leila J. Walker, M.A., Med. Bact.; San Fernando, Calif. (7413)

590. Effect of Amphotericin B Against *Coccidioides Immitis.* I. *In Vitro* Studies.

Milton Huppert, Ph. D., Ch. Mycol. Research Lab.; Leila J. Walker, M.A., Med. Bact.; San Fernando, Calif. (7424)

591. Serology of Patients with Coccidioidomycosis.

Milton Huppert, Ph. D., Ch. Mycol. Research Lab.; Leila J. Walker, M.A., Med. Bact.; San Fernando, Calif. (7425)

592. Identification of Species in the Genus Candida.

Milton Huppert, Ph. D., Ch. Mycol. Research Lab.; Leila J. Walker, M.A., Med. Bact.; San Fernando, Calif. (7426)

593. Sensitivity to Amphotericin B of *Coccidioides Immitis* Strains Isolated from Patients

Milton Huppert, Ph. D., Ch. Mycol. Research Lab.; Leila J. Walker, M.A., Med. Bact.; San Fernando, Calif. (10591)

594. Effect of Amphotericin B Against *Coccidioides Immitis.* II. *In Vivo* Studies.

Milton Huppert, Ph. D., Ch. Mycol. Research Lab.; Leila J. Walker, M.A., Med. Bact.; San Fernando, Calif. (10592)

595. Use of the Membrane Filter in the Diagnosis of Coccidioidal Meningitis.

Milton Huppert, Ph. D., Ch. Mycol. Research Lab.; Leila J. Walker, M.A., Med. Bact.; San Fernando, Calif. (10593)

596. Preparation of Antigens from Fungi.

Milton Huppert, Ph. D., Ch. Mycol. Research Lab.; San Fernando, Calif. (10594)

597. Histochemical Study of Experimental Mycobacterial and Mycotic Infections.

Perry J. Melnick, M.D., Ch. Lab. Serv.; Lawrence G. Wayne, Ph. D., Ch. Microbiol. Research Unit; Milton Huppert, Ph. D., Ch. Mycol. Research Lab.; San Fernando, Calif. (10595)

598. Serum Protein Electrophoretic Patterns in Chronic Schistosomiasis Mansoni.

Dr. Eli A. Ramirez, Ch. Med. Serv., San Juan, P.R. (7470)

599. Infectious Hepatitis. To Carry Out Follow-up Studies in Cases of Infectious Hepatitis Observed at San Patricio VA Hospital.

José A. DeJesús, M.D., Ch. GI Sec.; José M. Torres, MD., Attend. VA, Asst. Prof. Clin. Med., Univ. of Puerto Rico, Sch. of Med.; Félix M. Reyes, M.D., Ch. Lab. Serv.; J. Haddock-Suárez, M.D., Ch. Diseases of Kidney Sec.; San Juan, P.R. (7471)

600. Studies on Immunity to Schistosomiasis Mansoni to Include Evaluation of Circumoval Precipitin Test as a Criterion to Determine Results of Treatment in Human and Experimental Schistosomiasis.

Rafael Rodriguez-Molina, M.D., Asst. Dir. Prof. Serv. for Research; José Oliver-González, Ph. D., Cons. VAH, Prof. Parasit., Univ. of Puerto Rico, Sch. of Med.; Amina Rivera de Sala, M.T., Med. Biol. Tech.; San Juan, P.R. (7476)

601. Incidence of Antibiotic Resistant Staphylococcus Aureus in Nose and Pharynx of Hospital Personnel.

Jenaro Haddock-Suárez, M.D., Ch. Dis. Kidney Sect.; Josefina Baralt-Pérez, M.S., Bact.; Alfred W. Axtmayer, M.D., Asst. Ch. Surg. Serv.; Rafael Rodriguez-Molina, M.D., Asst. Dir. Prof. Serv. Research; San Juan, P.R. (7500)

602. A Study of the Bacterial and Fungus Flora of the External Auditory Canal in the Otitudes in Puerto Rico.

William Reichard, M.D., Ch. ENT Sect.; Josefina B. Pérez, M.S., Bact.; María Esther Belaval, M.S., Mycol.; San Juan, P.R. (7503)

603. Studies on Immunity in Schistosomiasis Mansoni. IV (a) *Gamma* Globulin and *Beta* Globulin and the Prevention of Infection by *S. Mansoni* in White Mice. (b) The Therapeutic Effect of *Gamma* and *Beta* Globulin in Infection with *S. Mansoni* in White Mice.

Rafael Rodriguez-Molina, M.D., Asst. Dir. Prof. Serv. for Research; Marta Cancio, Ph. D., Super. Biochem. Gen. Med. Research Lab.; Jose Oliver-Gonzalez, Ph. D., Cons. Parasit., VAH; Gustavo Ramirez de Arellano, Asst. Ch. Path. Serv.; Amina Rivera de Sala, Med. Tech.; San Juan, P.R. (9225)

604. Evaluation of Antibiotics.

Ernest Q. King, M.D., Ph. D., Staff Phys.; Robert Weld, M.T., Ch. Lab. Tech.; Michael Ordanik, Ph. D., Bact. Research; Sepulveda, Calif. (10443)

605. Studies on the Renal Toxicity of Demethylchlortetracycline.

R. Goldman, M.D., Assoc. Clin. Prof. of Med., Univ. of Calif. at Los Angeles; L. M. Hall, M.D., Staff Phys., VAH; Sepulveda, Calif. (10444)

606. A Survey of Pathogenic Fungi Isolated from Veterans in the Ark-La-Tex Area.

Loris J. Barberousse, M.S., Bact.; Shreveport, La. (7761)

607. Trichinosis. Autopsy Survey.

Theodore A. Koerner, M.D., Ch. Lab. Serv.; Loris J. Barberousse, M.A., Bact.; Shreveport, La. (7759)

608. Bacterial Response During Prolonged Hypothermia in an Experimental Study.

Charles J. Galbraith, M.D., Dir. St. Louis Univ. Sect. Surg.; V. L. Willman, M.D., Phys., VAH; C. Rollins Hanlon, M.D., Cons. VAH, and Prof. Surg., St. Louis Univ. Sch. Med.; St. Louis, Mo. (7687)

609. The Specificity of the Histoplasmin-Latex Agglutination Test.

John P. Duffy, Bact., VAH; Winifred Osborne, Asst. Microbiol., State Univ., New York; Syracuse, N.Y. (8934)

610. Clinical Classification of the Fatty Liver Syndrome.

Samuel Zelman, M.D., Staff, Med. Serv.; Topeka, Kans. (10531)

611. Evaluation of new Drugs in Pulmonary Coccidioidomycosis.

Leo V. DiCara, M.D., Ch. Diag. and Classification Sec., TB Serv.; Solomon Netzer, M.D., Dir., Prof. Serv.; Tucson, Ariz. (7920)

612. Lesions of Coccidioides Immitis—Morphologic and Histo-chemical Differences in Focal and Disseminated Types.

Richard Stanley Armstrong, M.D., Cons. Path., VAH, Path.-County Hosp.; Walter Paul Gibble, Ph. D., Research Biochem., VAH; Tucson, Ariz. (7921)

613. Transmission of Leprosy to Experimental Animals.

William H. Feldman, D.V.M., Ch. Lab. Research in Pulm. Dis., VACO; Robert A. Patnode, Ph. D., Ch. TB Research Lab., VAH; Washington, D.C. (7969)

614. A Clinical and Laboratory Study of Geotrichum Candidum.

Harold D. Rose, M.D., Ch. Med. Chest Sec., Med. Serv.; Wood, Wis. (8274)

615. A Clinical Evaluation of the Parenteral Use of Novobiocin.

Mark W. Garry, M.D., Ch. Med. Serv.; Wood, Wis. (8291)

616. A Study of Control of Pathogenic Bacteria on a Surgical Ward.

Derward Lepley, M.D., Attend. Thoracic Surg.; Charles M. Schroeder, M.D., Attend. Surg.; Marie L. Koch, Ph. D., Ch. Microbiol. Sec., Lab. Serv.; Wood, Wis. (8299)

617. Evaluation of Fluorescent Antibody Techniques for Rapid Identification of Micro-organisms in a Hospital Clinical Laboratory.

Marie L. Koch, Ph. D., Ch. Microbiol. Sect., Lab. Serv.; Russell M. Maynard, M.D., Ch. Lab. Serv.; Wood, Wis. (9740)

618. Phage Patterns of Coagulase-Positive Staphylococci Occurring in a Large General Hospital: Their Distribution and Antibiotic Resistance.

Marie L. Koch, Ph. D., Ch., Microbiol. Sect., Lab. Serv.; Lorraine M. Kastensen, B.S., Med. Tech., Bact. Sect., Lab. Serv.; Abraham Resnick, B.A., Tech. Bact. Sect., Lab. Serv.; Wood, Wis. (9741)

619. The Patient as a Source of Nosocomial Staphylococcal Infections.

Reuben Beezy, M.D., Ch. Gen. Med. Sect., Med. Serv.; Robert E. Bormes, M.D., Asst. Ch., Surg. Serv.; Marie L. Koch, Ph. D., Ch. Microbiol. Sect., Lab. Serv.; Wood, Wis. (9742)

620. Clinical Evaluation of the Propionyl Ester of Erythromycin (Ilosone[R]) as a Broad Spectrum Antibiotic.

Reuben Beezy, M.D., Ch. Gen. Med. Sect., Med. Serv.; Mark W. Garry, M.D., Ch. Med. Serv.; Marie L. Koch, Ph. D., Ch. Microbiol. Sect., Lab. Serv.; Wood, Wis. (9743)

621. *In Vitro* Culture of Normal and Neoplastic Human Lung Tissue.

Joaquin F. Lopez, M.D., Ch. Immunohemat. Sect., Lab. Serv.; Donald Greiff, Sc. D., Research Cons. Path, Research Serv.; Wood, Wis. (9744)

622. Bacterial Persistence in Irradiated Mice Treated with Isologous and Homologous Bone Marrow.

Harold O. Conn, M.D., Clin. Invest.; James W. Hollingsworth, M.D., form. Ch., Med. Serv.; West Haven, Conn. (9856)

623. Rapid Identification of Group A Streptococci with Fluorescent Antibody.

Andrew Huvos, M.D., Resident, Med. Serv.; George J. Friou, Ch. Infect. Dis. Sect.; West Haven, Conn. (9866)

624. An Evaluation of Susceptibility to Pneumococcal Infection in Mice with Plasma Cell Tumors (NIH X5563).

Harold O. Conn, M.D., Clin. Invest.; West Haven, Conn. (9867)

625. Clinical and Therapeutic Trials in Infections and Rheumatic Diseases.

George J. Friou, M.D., Ch. Infect. Dis. Sect.; West Haven, Conn. (9868)

2. Cancer and Allied Diseases

626. Therapy of Bronchogenic Carcinoma

James H. Cullen, M.D., Ch. Med. Serv.; William U. Reidt, M.D., Ch. Pulm. Dis. Sect., Med. Serv.; Albany, N.Y. (2001)

627. A Pressure-Temperature Study of Cells of Normal and of Malignant Origin.

Joseph V. Landau, Ph. D., Ch. Oncol. Sect., Gen. Med. Research Lab.; Albany, N.Y. (2006)

628. Study of the Relationship between Psychological Masculinity/Feminity and the Occurrence of Cancers with Various Male/Female Incidence Rates. I. A Study of Men.

Leo Shatin, Ph. D., Ch. Psych. Sect.; Albany, N.Y. (2029)

629. Study of the Relationship Between Psychological Masculinity/Feminity and the Occurrence of Cancers with Various Male/Female Incidence Rates. II. A Study of Women.

Leo Shatin, Ph. D., Ch. Psychol. Sect.; Kenneth B. Olson, M.D., Cons. VAH, Dir., Sub-Dept. of Oncol., Albany Medical College; Albany, N.Y. (2030)

630. Investigation of a Possible Endogenous "Neoplasia-inducing" Factor in Bronchial Gland Secretions.

S. R. Powers, Jr., M.D., Attend. Gen. Surg., VAH, and Prof. Experiment. Surg., Albany Med. Coll.; A. A. Stein, M.D., Attend. Path., VAH, and Assoc. Prof. Path., Albany Med. Coll.; J. M. Cleary, M.D., Phys. Surg., VAH; J. V. Landau, Ph. D., Ch. Oncol. Sect.; E. Brunner, B.S., Research Asst. Oncol. Sect.; Albany, N.Y. (8632)

631. Investigation of Epidermoid Carcinoma

W. A. Childs, M.D., Ch. Surg. Serv.; G. Youngman, M.D., Ch. Radiol. Serv.; W. Hentel, M.D., Ch. Lab. Serv.; Albuquerque, N. Mex. (2058)

632. Tissue Compatibility Studies

R. D. Strickland, Ph. D., Research Biochem.; W. A. Childs, M.D., Ch. Surg. Serv.; D. Gale, Ph. D., Bact.; W. Hentel, M.D., Ch. Lab. Serv.; Albuquerque, N. Mex. (2060)

633. Studies in Base Levels of Sulfur Containing Amino Acids

R. D. Strickland, Ph. D., Research Biochem.; P. A. Mack, Research Tech.; Albuquerque, N. Mex. (9283)

634. The Construction of a Plastic Prosthesis for Tracheal and Esophageal Substitution.

W. A. Childs, M.D., Ch. Surg. Serv.; E. Broderick, M.D., Asst. Ch. Surg. Serv.; Albuquerque, N. Mex. (9284)

635. The Effect of Low-Frequency Currents on Various Normal and Cancer Cells.

Louis F. Knoepp, M.D., Ch. Surg. Serv.; M. Marie Cline, R.N.A., Asst.; Alexandria, La. (2091)

636. Perfusion of Various Cancericidal Drugs on Far-Advanced Carcinomas.

Louis F. Knoepp, M.D., Ch. Surg. Serv.; Albert L. Rayburn, M.D., Surg.; Salem F. Sayegh, M.D., Surg., Alexandria, La. (9289)

637. Use of Chemotherapy in Malignancies. I. Indications for the Use of Nitrogen Mustard in Bronchogenic Carcinoma.

Henry K. Schoch, M.D., Ch. Med. Serv.; J. Richard Johnson, M.D., Ch. Pulm. Diseases; Donald R. Korst, M.D., Ch. RI Serv.; Ann Arbor, Mich. (2130)

638. Cytologic Changes of Irradiation in Oral Smears, Sputum and Bronchial Washings Using Histochemical Procedures.

William O. Umiker, M.D., Ch. Lab. Serv.; Lorraine J. Young, B.S., Hist., VAH; Isadore Lampe, M.D., Prof. of Radiol., Univ. of Michigan; Howard B. Latourette, M.D., Asst. Prof. of Radiol., Univ. of Michigan; Robert Rapp, M.D., Ch. Radiol. Serv., VAH; Delbert Boblitt, M.D., Asst. Ch. Radiol. Serv.; Ann Arbor, Mich. (2131)

639. Application of Fluorochrome-Ultraviolet Fluorescence Technique in Routine Cytologic Smear Diagnosis.

William O. Umiker, M.D., Ch. Clin. Lab. Serv.; Lorraine J. Young, B.S., Hist.; Larry C. Pickle, B.S., Hist.; Ann Arbor, Mich. (2132)

640. Evaluation of Total and Prostatic Acid Phosphatase in Serum in the Diagnosis of Prostatic Carcinoma.

William O. Umiker, M.D., Ch. Lab. Serv.; Theodore Boiter, B.S., Ch. Biochem. Sect.; Ann Arbor, Mich. (2133)

641. Enzyme Production in Neoplastic States.

Henry K. Schoch, M.D., Ch. Med. Serv.; Patricia Sommerfeldt, B.S., Research Biochem.; William H. Starkweather, B.S., Research Biochem.; Ann Arbor, Mich. (2157)

642. Application of Secondary Fluorescence in Routine Histopathologic Diagnosis.

William O. Umiker, M.D., Ch. Clin. Lab. Serv.; Ann Arbor, Mich. (2159)

643. Application of Fluorescence Microscopy to Irradiation Changes (X-Ray and Cobalt) in Tissues and Exfoliated Cells.

William O. Umiker, M.D., Ch. Clin. Lab. Serv.; Robert Rapp, M.D., Ch. Radiol. Serv.; Barry F. Waite, B.S., Histopath. Tech.; Ann Arbor, Mich. (2160)

644. Special Antibody Studies.

Donald R. Korst, M.D., Act. Ch. RI Serv.; Charles T. Knorpp, Asst. Ch. (Scien.) RI Serv.; Ann Arbor, Mich. (2207)

645. Fluorescent Antibody Labeling in Lupus Erythematosus and Multiple Myeloma.

Donald R. Korst, M.D., Act. Ch. RI Serv.; William O. Umiker, M.D., Ch. Lab. Serv.; Joan E. Wilhelm, Med. Biol., Med. Research; Ann Arbor, Mich. (2217)

646. The Evaluation of Bone Marrow Depression Following Nitrogen Mustard and Other Chemotherapeutic Agents in the Treatment of Cancer.

Donald R. Korst, M.D., Act. Ch. RI Serv.; Ann Arbor, Mich. (2218)

647. P–32 Uptake of Thyroid Nodules.

Donald R. Korst, M.D., Act. Ch. RI Serv.; Charles T. Knorpp, Asst. Ch. (Scien.) RI Serv.; Mary H. Rennie, RI Scien. (Radiol. Safety); Ann Arbor, Mich. (2223)

648. Hormonal Effects on Transplanted Cancer.

John A. Ward, M.D., Clin. Invest.; Mary E. Collins, Biochem.; Atlanta, Ga. (2289)

649. The Diagnosis of Bronchogenic Carcinoma by Cytologic Smears.

Earnest C. Atkins, M.D., Surg. Resident; Harriet Leslie, AB, Tech.; Atlanta Ga. (8518)

650. Long Term Follow-up of Testicular Tumors.

Simon Krantz, M.D., Ch. Radiol. Serv.; Earl Haltiwanger, M.D., Ch. Urol. Serv.; John A. Ward, M.D., Clin. Invest.; Atlanta, Ga. (8521)

651. Esophageal Reconstruction with Plastic Grafts.

C. Martin Rhode, M.D., Ch. Surg. Serv.; William D. Jennings, Jr., M.D., Asst. Ch. Surg. Serv.; Augusta, Ga. (2299)

652. Treatment of Carcinoma of the Pancreas with Orchidectomy and Stilbesterol.

W. E. Marchand, M.D., Ch. Med. Surg. Serv.; M. W. Shapiro, M.D., Attend. Path.; Bedford, Mass. (2478)

653. Studies on the Serum and Spinal Fluid Protein Patterns in Patients with Thyroid Dysfunction.

S. Richardson Hill, M.D., Act. Ch. Metab. Sect.; J. A. Pittman, Jr., Ch. RI Unit; Birmingham, Ala. (2563)

654. A Study of Serum Lipid Patterns in Patients with Diabetes Mellitus Thyroid Dysfunction and Hypercholesterolemia.

S. Richardson Hill, M.D., Ch. Metab. Sect.; B. R. Boshell, M.D., Clin. Invest.; J. A. Pittman, Jr., M.D., Ch. RI Unit; Birmingham, Ala. (2564)

655. Studies on the Production of Estrogen by the Adrenal Cortex and Testes.

S. Richardson Hill, Jr., M.D., Act. Ch. Metab. Sec.; J. A. Pittman, Jr., M.D., Ch. RI Unit; Willard R. Starnes, M.S. Ch. Biochem.; Birmingham, Ala. (2578)

656. Study of Cases of Carcinoma of Colon in the Younger Age Group (30 yrs.).

J. W. Denson, M.D., Surg. Serv., VAH; Paul Salter, M.D., Asst. Prof., Dept. of Surg., Med. Coll. of Alabama; Birmingham, Ala. (2620)

657. Evaluation of the Possible Role of Intracarotid Protoplasmic Poisons in the Treatment of Malignant Cerebral Tumors.

J. H. Drew, M.D., Ch. Neurosurg.; R. Kjellberg, M.D., Resident Neurosurg.; R. Ojemann, M.D., Resident, Neurosurg.; W. Cooley, M.D., Resident, EENT Sect.; Boston, Mass. (2678)

658. Radical Surgery in Cancer of the Head and Neck.

D. W. Campbell, M.D., Resident, Surg. Serv.; D. J. Davis, M.D., Resident, Gen. Surg.; J. E. Murray, M.D., Resident, Gen. Surg.; Henry H. Faxon, M.D., Ch. Surg.; Boston, Mass. (2683)

659. The Survival of AK Leukemic in Swiss Mice.

James A. E. Halkett, M.S., Biol., RI Serv; Boston, Mass (2762)

660. Effect of Sublethal Doses of X-Ray on Resistance to Leukemia in AK and Swiss Strains of Mice.

James A. E. Halkett, M.S., Biol., RI Serv.; Boston, Mass. (2763)

661. Physicochemical Properties of the Vitamin B_{12} Binding Substances of Normal and Leukemic Sera.

Aaron Miller, M.D., Phys., RI Serv.; John F. Sullivan, B.S., Biochem., RI Serv.; Boston, Mass. (2766)

662. The Nature of the Serum Vitamin B_{12} Binding Protein in Lower Animals.

Aaron Miller, M.D., Phys., RI Serv.; John F. Sullivan, B.S., Biochem., RI Serv.; Boston, Mass. (10238)

663. Passive Transfer of Resistance Between Mice of the Same Strain and Between Mice of Different Strains.

James A. E. Halkett, M.S., Biol., RI Serv.; Boston, Mass. (10239)

664. A Millipore Chamber.

James A. E. Halkett, M.S., Biol., RI Serv.; Boston, Mass. (10311)

665. Oral Carcinoma: Some Clinical Diagnostic Problems with Early Lesions.

Louis J. Loscalzo, D.D.S., Staff Dent.; Martin I. Ames, D.D.S., Staff Dent.; Bronx, N.Y. (4497)

666. Neurological Hodgkin's Disease.

Bernard Roswit, M.D., Ch. Radiotherapy Serv.; Erich G. Krueger, M.D., Ch. Neurosurg. Sec.; Howard Adler, M.D., Asst. Ch. Radiol. Serv.; Joseph E. Pisetsky, M.D.; Sol. M. Unger, M.D.; Bronx, N.Y. (4513)

667. A Study of Skin Homografting in Patients With Lymphomas.

Ira Green, M.D., Research Assoc., Cancer Chemotherapy; Philip F. Corso, M.D., Resident Med.; Bronx, N.Y. (4528)

668. Immunological Study of Lymphomas.

Julius Wolf, M.D., Ch. Med. Serv.; Herbert K. Miller, Ph. D., Biochem. Research Lab.; Bronx, N.Y. (4544)

669. Study of the Growth Rate of Tumors.

Mordecai Schwartz, M.D., Resident Med.; Bronx, N.Y. (4556)

670. Zanthoma of the Dura.

A. Wolf; T. Ehrenreich; Bronx, N.Y. (4612)

671. A Study of an Improved Patient Positioning System.

Bernard Roswit, M.D., Ch. Radiotherapy Serv.; Stanley J. Malsky, Ch. Physicist, Radiotherapy Serv.; Cyprian Reid, Physicist, Radiotherapy Serv.; E. Kerut, Attend. Radiotherapy Serv.; Bronx, N.Y. (4675)

672. Sialographic Changes Following Radiotherapy.

L. J. Loscalzo, D.D.S.; B. Roswit, M.D.; Bronx, N.Y. (4676)

673. Lumbo-dorsal Venography.

Robert Schobinger, M.D., Sect. Ch. Gen. Surg.; Philip Cooper, M.D., Ch. Surg. Serv.; Erich G. Krueger, M.D., Ch. Neurosurg. Serv.; Bronx, N.Y. (4715)

674. Azygos Venography in Pulmonary and Mediastinal Neoplasms.

Robert Schobinger, M.D., Sect. Ch. Gen. Surg.; Philip Cooper, M.D., Ch. Surg. Serv.; Kenneth C. Sze, M.D., Sect. Ch. Thoracic Surg.; Joseph Stein, M.D., Ch. Radiol. Serv.; Bronx, N.Y. (4716)

675. Biological, Physical and Pathogenic Properties of the Mouse Leukemic Agent.

Ludwik Gross, M.D., Ch. Spec. Cancer Research Prog.; Bronx, N.Y. (4728)

676. Filterable Agent Recovered from Mouse Leukemia Extracts Causing Parotid Gland Tumors Following Inoculation Into Newborn Mice of the C3H Line.

Ludwik Gross, M.D., Ch. Spec. Cancer Research Prog.; Bronx, N.Y. (4729)

677. Attempt to Recover Filterable Oncogenic Agents from Induced Leukemias and Parotid Tumors.

Ludwik Gross, M.D., Ch. Spec. Cancer Research Prog.; Bronx, N.Y. (4730)

678. Electron Microscopic Studies of the Mouse Leukemia Agent.

Ludwik Gross, M.D., Ch. Spec. Cancer Research Prog.; Bronx, N.Y. (4733)

679. Attempt to Recover Filterable Oncogenic Agents from X-Ray Induced C3H and C57 Brown Leukemia.

Ludwik Gross, M.D., Ch. Spec. Cancer Research Prog.; Bronx, N.Y. (4734)

680. Results of Inoculation of Filtrates from Brains, as Compared with that of Leukemic Organs from Leukemic Mouse Donors into Newborn, Suckling, and Adult C3H and Swiss Mice.

Ludwik Gross, M.D., Ch. Spec. Cancer Research Prog.; Bronx, N.Y. (4737)

681. Results of Inoculation of 10^{-1} to 10^{-6} Dilutions of Passage A Leukemic Filtrates into Newborn and Suckling C3H Mice.

Ludwik Gross, M.D., Ch. Spec. Cancer Research Prog.; Bronx, N.Y. (4738)

682. Attempt to Neutralize the Mouse Leukemic Agent *In Vitro* by a Specific Immune Serum.

Ludwik Gross, M.D., Ch. Spec. Cancer Research Prog.; Bronx, N.Y. (4739)

683. Studies on the Nature and the Mechanism of Induction of Leukemia in Mice by X-Ray Irradiation.

Ludwik Gross, M.D., Ch. Spec. Cancer Research Prog.; Bronx, N.Y. (4740)

684. Susceptibility of Newborn and 1 to 14 Days Old Swiss (NCI), 1 to 14 Days Old C57 Brown/cd, Mice, to Passage A Leukemic Filtrates.

Ludwik Gross, M.D., Ch. Spec. Cancer Research Prog.; Bronx, N.Y. (4741)

685. Rehabilitation after Partial Glossectomy Through the Cooperation of Prosthodontist and Surgeon.

Lester E. Rosenthal, D.D.S., Career Resident, VAH; Robert Boyer, M.D., D.D.S., Surg. Resident, Jacobi Hospital; Jules V. Lane, D.D.S., Attend. Oral Surg., Jacobi Hospital; Bronx, N.Y. (8645)

686. Survival Time of Skin Homografts Using Paraplegics as Donors to Normal Volunteers.

Michael P. Flynn, M.D., Resident, Plastic Surg.; Herbert Conway, M.D., Ch. Plastic Surg.; Bronx, N.Y. (8650)

687. An Investigation of Solid State Dosimetry Systems.

Stanley J. Malsky, M.A., M. Sc., Ch. Physicist, Radiotherapy Serv.; Bernard Roswit, M.D., Ch. Radiotherapy Serv.; Cyprian B. Reid, B. Sc., Physicist, Radiotherapy Serv.; Sol M. Unger, M.D., Asst. Ch. Radiotherapy Serv.; Bronx, N.Y. (8651)

688. An Investigation of Phantoms for Radiation Dosimetry.

Bernard Roswit, M.D., Ch. Radiotherapy Serv.; Stanley J. Malsky, M.A., M. Sc., Ch. Physicist, Radiotherapy Serv.; Cyprian Reid, B. Sc., Physicist, Radiotherapy Serv.; Sol M. Unger, M.D., Asst. Ch. Radiotherapy Serv.; Bronx, N.Y. (8652)

689. An Investigation of New Devices and Techniques for Precisional Beam Orientation.

Bernard Roswit, M.D., Ch. Radiotherapy Serv.; Stanley J. Malsky, Ch. Physicist, Radiotherapy Serv.; Cyprian B. Reid, Physicist, Radiotherapy Serv.; Sol M. Unger, M.D., Asst. Ch. Radiotherapy Serv.; Bronx, N.Y. (8653)

690. An Investigation into a New Method of Chemical Dosimetry.

Cyprian B. Reid, B. Sc., Physicist, Radiotherapy Serv.; Bronx, N.Y. (8654)

691. Detection of Cancer Cells in the Venous Blood.

Robert Schobinger, M.D., Sec. Ch. Gen. Surg.; Philip Cooper, M.D., Ch. Surg. Serv.; Amour F. Liber, M.D., Asst. Ch. Lab. Serv.; Frederick R. Randall, M.D., Research Assoc., Adjuvant Cancer Chemotherapy, Surg. Serv.; Bronx, N.Y. (9046)

692. Report of Case of Bronchial Adenoma Successfully Treated by Local Excision.

Kenneth C. Sze, M.D., Sec. Ch. Thoracic Surg.; Philip Cooper, M.D., Ch. Surg. Serv.; Bronx, N.Y. (9056)

693. Intradural Lipoma of the Spinal Cord—Case Report.

Erich G. Krueger, M.D., Ch. Neurosurg. Serv.; Bernard B. Perlman, Resident, Surg. Serv.; Bronx, N.Y. (9057)

694. Metastatic Anaplastic Carcinomatosis to the Skin, of the En Cuirasse Type: Case Report.

George Woolf, M.D., Resident, Med.; Harry Shatin, M.D., Chief, Derm. Sect., Med. Serv.; Bronx, N.Y. (9059)

695. Paralyzed Vocal Cord Detected on Chest Film—A New Prognostic Sign in Intra-thoracic Carcinoma.

Sol M. Unger, M.D., Asst. Ch. Radiotherapy Serv.; James H. Davenport, M.D., Asst. Ch. Radiol. Serv.; Bronx, N.Y. (9214)

696. Hemangioma of the Thoracic Spine.

Erich G. Krueger, M.D., Ch. Neurosurg. Sec.; Garrison G. Sobel, M.D., Resident, Neurosurg.; Charles Weinstein, M.D., Resident, Radiol. Serv.; Bronx, N.Y. (9216)

697. Effect of Thymectomy on Development of Leukemia in C3H Mice Inoculated With Leukemic "Passage" Virus.

Ludwik Gross, M.D., Ch. Spec. Cancer Research Prog.; Bronx, N.Y. (10079)

698. Agglutinating Action of Heat-Inactivated Passage a Mouse Leukemia Filtrates on Mouse Red Blood Cells.

Ludwik Gross, M.D., Ch. Spec. Cancer Research Prog.; Bronx, N.Y. (10080)

699. Hodgkin's of the Lung.

Bernard Roswit, M.D., Ch. Radiotherapy Serv.; Sol M. Unger, M.D., Asst. Ch. Radiotherapy Serv.; Bronx, N.Y. (10081)

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700. Tumors of the Head and Neck.

T. D. Rees, M.D., form. Resident, Surg. Serv.; H. J. Buncke, Jr., M.D., form. Resident, Surg. Serv.; R. Gonzalez, M.D., form. Resident, Surg. Serv.; J. A. Howell, M.D., form. Resident, Surg. Serv.; Bronx, N.Y. (10082)

701. (Former title: Pinealoma with Metastatic Seeding into the Lateral Ventricles; Case Report). New title: Pineal Tumor with Metastatic Seeding into the Walls of the Cerebral Ventricles.

Erich G. Krueger, M.D., Ch. Neurosurg. Serv.; Joseph Stein, M.D., Ch. Radiol. Serv.; Bronx, N.Y. (10083)

702. Metastasis in Ureter from Adenocarcinoma of Contralateral Kidney.

Herman Wechsler, M.D., Attend. Urol., Surg. Serv.; L. L. Spivack, M.D., Ch. Urol. Sec., Surg. Serv.; Bronx, N.Y. (10084)

703. Cavitary Hodgkin's of the Lung.

Bernard Roswit, M.D., Ch. Radiotherapy Serv.; Sol M. Unger, M.D., Asst. Ch. Radiotherapy Serv.; Bronx, N.Y. (10085)

704. Hodgkins Disease Involving the Sternum. A Report of 3 Cases.

Bernard Roswit, M.D., Ch. Radiotherapy Serv.; S. DePass, M.D., Form. Resident, Radiotherapy Serv.; Sol M. Unger, M.D., Asst. Ch. Radiotherapy Serv.; Bronx, N.Y. (10086)

705. Ewing's Sarcoma with Extensive Metastases.

H. Adler, M.D., Resident, Radiol. Serv.; Bernard Roswit, M.D., Ch. Radiotherapy Serv.; Bronx, N.Y. (10087)

706. Hodgkin's Disease of the Alveolar Ridge—A Case Report.

G. A. Meyer, M.D., Resident Radiol.; Bernard Roswit, M.D., Ch. Radiotherapy Serv.; Sol M. Unger, M.D., Asst. Ch. Radiotherapy Serv.; Benjamin W. Hoffman, D.D.S., Dent.; Bronx, N.Y. (10088)

707. Gaucher's Disease; A Case Report With Sarcomatous Change.

Bernard Roswit, M.D., Ch. Radiotherapy Serv.; Sol M. Unger, M.D., Asst. Ch. Radiotherapy Serv.; Bronx, N.Y. (10089)

708. Chondrosarcoma of Cerebello-Pontine Angle Simulating Acoustic Neurinoma.

Erich G. Krueger, M.D., Ch. Neurosurg. Sect.; Harold Haft, M.D., Sr. Resident, Neurosurg. Sect.; Bronx, N.Y. (10090)

709. A Case Report of a 6½ Year Follow-up of a Pancoast Tumor Patient Who is Alive and Well Following Surgery Which Was Inadequate Plus Radiation Therapy.

Sol M. Unger, M.D., Asst. Ch. Radiotherapy Serv.; Bernard Roswit, M.D., Ch. Radiotherapy Serv.; Bronx, N.Y. (10129)

710. Studies on Sub-Cellular Components—Cellular Nucleic Acid Injections.

Max Bovarnick, M.D., Ph. D., Ch. Lab. Serv.; Paul Donovan, Ph. D., Biochem., Research Lab.; Milton H. Schrift, M.S., Microbiol.; Brooklyn, N.Y. (2872)

711. Studies of Sub-Cellular Components—Cell Nuclei.

Max Bovarnick, M.D., Ph. D., Ch. Lab. Serv.; Leo A. Miller, Ph. D., Biochem., Research Lab.; Brooklyn, N.Y. (2873)

712. The Medical Histories of Patients With Leukemia.

Paul W. Spear, M.D., Ch., Med. Serv.; Lucille Siegel, R.N., Collab. in VAH Research; Bryon McMahon, M.D., Collab. in VAH Research; Brooklyn, N.Y. (2879).

713. Ehrlich Ascites Tumor—Dormant Virus Experiments.

Yale Rabinowitz, M.D., Asst. Ch. Lab. Serv.; Max Bovarnick, M.D., Ph. D., Ch. Lab. Serv., Asst. Dir. Prof. Serv. for Research, Ch. RI Lab.; Brooklyn, N.Y. (2889)

714. Isolation of Bronchogenic Carcinoma Cells by Tissue Culture from Pulmonary Vein After Pneumonectomy.

Yale Rabinowitz, M.D., Asst. Ch. Lab. Serv.; Robert Klopstock, M.D., Ch. Thoracic Surg. Sect.; Brooklyn, N.Y. (2890)

715. Studies of Sub-Cellular Components. II. Maintenance of Metabolically Active Cell Nuclei.

Max Bovarnick, M.D., Ph. D., Ch. Lab. Serv.; Leo A. Miller, Ph. D., Biochem. Research Lab.; Brooklyn, N.Y. (2891)

716. Determination of Incidence of Carcinoma in Clinical Lymph Nodes Not Clinically Involved.

H. Robert Freund, M.D., Attend.; Ira A. Polisar, M.D., Cons.; William S. Calen, M.D., Resident, Surg. Serv.; J. I. Abrahams, M.D., Attend.; Brooklyn, N.Y. (2895)

717. Exfoliative Cytology of Oral Tissues as Adjunct to Cancer Detection.

Henry C. Sandler, D.M.D., Ch. Dent. Serv.; S. Sigmund Stahl, D.D.S., Attend.; Lester R. Cahn, D.D.S., Cons.; Brooklyn, N.Y. (2928)

718. Sensitization Reaction and Radiation Response of Cells Exfoliated from the Oral Mucous Membrane.

Henry C. Sandler, D.M.D., Ch. Den. Serv.; S. Sigmund Stahl, D.D.S., Attend.; Jerome Dubowy, M.D., Radiation Therapist, Radiol. Serv.; Sarah Liberson, M.D., Radiotherapist, Radiol. Serv.; Brooklyn, N.Y. (2929)

719. Endocrine Physiology of the Normal and Diseased Prostate.

Wells E. Farnsworth, Ph. D., Research Biochem.; Ted Bow, Biochem. RI.; Buffalo, N.Y. (2977)

720. Antigens in the Treatment of Advancing Malignancy.

Marvin L. Bloom, M.D., Attend. Hemat. VAH, Assoc. Prof. of Med., Univ. of Buffalo, Sch. of Med.; William M. Chardack, M.D., Ch. Surg. Serv., VAH; Kenneth C. Olson, M.D., Asst. Ch. Surg. Serv.; Ernest Witebsky, M.D., Cons. Bact.; John R. Paine, M.D., Cons. Surg.; Buffalo, N.Y. (2979)

721. Mesothelioma of the Peritoneum—Case Report and Review of Literature.

Andrew A. Gage, M.D., Staff Surg.; John B. Sheffer, M.D., Ch. Lab. Serv.; Kornel L. Terplan, M.D., Cons. Path.; Buffalo, N.Y. (2980)

722. Biochemical Consquences of Genetic Aberrations.

Wells E. Farnsworth, Ph. D., Research Biochem., VAH; Majorie Farnsworth, Ph. D., Lect. and Research (Biol.) Assoc., Univ. of Buffalo., College of Arts and Sciences; Buffalo, N.Y. (2981)

723. Clinical Research Project on Inoperable Carcinoma of the Urinary Bladder.

William T. Moss, M.D., Ch. Therap. Radiol. Serv.; George J. Bulkley, M.D., Attend. Urol., Asst. Prof., Urol. Northwestern Univ.; Edward F. Scanlon, M.D., Attend. Surg., Assoc. Surg., Northwestern Univ.; Charles J. Staley, M.D., Asst. Ch. Surg.; Frederick W. Preston, M.D., Ch. Surg.; Chicago (Res.), Ill. (3598)

724. Clinical Research Project for Carcinoma of the Pyriform Sinus.

William T. Moss, M.D., Ch. Therap. Radiol. Serv.; Edward F. Scanlon, M.D., Attend. Surg., Assoc. Surg., Northwestern Univ.; Charles J. Staley, M.D., Asst. Ch. Surg.; Jesse E. Waller, M.D., Ch. Otolaryng. Sec.; Chicago (Res.), Ill. (3599)

725. The Relative Radiosensitivity of the Walker Tumor and Associated Normal Tissues at Different O_2 Tensions.

William T. Moss, M.D., Ch. Therap. Radiol. Serv.; Stanford K. Sweany, M.D., Ch. Chest Disease Sect.; Chicago (Res.), Ill. (3604)

726. A Study of Host Resistant Factors in Neoplastic Disease.

Frederick Preston, M.D., Ch. Surg. Serv.; George Henegar, M.D., Staff, Surg. Serv.; Chicago (Res.), Ill. (3660)

727. The Surgical Treatment of Carcinoma of the Esophagus.

Charles Staley, M.D., Asst. Ch. Surg. Serv.; Edward Scanlon, M.D., Attend. Surg., VAH, Assoc. Surg., Northwestern Univ.; Chicago (Res.), Ill. (3662)

728. An Evaluation of the Methods of Therapy for Carcinoma of the Extrinsic Larynx.

Edward Scanlon, M.D., Attend. Surg., VAH, Assoc. Surg., Northwestern Univ.; William Moss, M.D., Ch. Therapeutic Radiol. Serv., VAH; Charles Staley, M.D., Asst. Ch. Surg. Serv.; Jesse Waller, M.D., Sect. Ch. Otolaryng.; Chicago (Res.), Ill. (3665)

729. Treatment of Advanced Cancer in the Pelvis by Radical Resection of Pelvic Viscera and Creation of an Artificial Urinary Bladder from a Loop of Ileum.

Charles Staley, M.D., Asst. Ch. Surg. Serv.; Edward Scanlon, M.D., Attend. VAH, Assoc. Surg., Northwestern Univ.; Chicago (Res.), Ill. (3666)

730. Treatment of Advanced Pelvic Cancer by Pelvic Exenteration.

Charles Staley, M.D., Asst. Ch. Surg. Serv.; Edward Scanlon, M.D., Attend. VAH, Assoc. Surg., Northwestern Univ.; Chicago (Res.), Ill. (3667)

731. Retrograde Ileopyelography. Radiologic Examination Following Transplantation of Ureters to an Isolated Segment of Small Intestine.

Charles Staley, M.D., Asst. Ch. Surg. Serv.; Chicago (Res.), Ill. (3668)

732. The Treatment of Carcinoma of the Lip.

Edward Scanlon, M.D., Attend. VAH, Assoc. Surg., Northwestern Univ.; Charles Staley, M.D., Asst. Ch. Surg. Serv.; Chicago (Res.), Ill. (3670)

733. Internal Mammary Dissection for Carcinoma of the Breast.

Edward Scanlon, M.D., Attend. Surg. VAH, Assoc. Surg., Northwestern Univ.; Charles Staley, M.D., Asst. Ch. Surg. Serv.; Chicago (Res.), Ill. (3671)

734. The Use of Papanicolaou Smears in the Diagnosis of Intraoral Squamous Cell Carcinoma.

J. C. Calandra, M.D., Attend. Surg.; Richard W. Tiecke, D.D.S., Attend. Oral Surg.; F. J. Kendrick, Grad. Asst., Northwestern Univ.; Charles Staley, M.D., Asst. Ch. Surg. Serv., VAH; Chicago (Res.), Ill. (3685)

735. Examination of Blood for Tumor Cells, the Determination of Their Fate and Viability and Their Reaction to Chemotherapeutic Agents.

Frederick W. Preston, M.D., Ch. Surg.; George C. Henegar, M.D., Staff, Surg.; Chicago (Res.), Ill. (3688)

736. The Heterologous Transplantation of Human Neoplasms.

Frederick Preston, M.D., Ch. Surg.; George Henegar, M.D., Staff, Surg.; Chicago (Res.), Ill. (3690)

737. An Evaluation of 5-Fluorouracil in the Treatment of Advanced Cancer

Charles J. Staley, M.D., Asst. Ch. Surg. Serv.; Frederick W. Preston, M.D., Ch. Surg. Serv.; Joseph A. Werr, M.D., Resident, Surg.; John W. Richards, M.D., Resident, Surg.; Chicago (Res.), Ill. (9104)

738. Study of the Use of a Surgical Probe Counter for the Detection of Intracranial Neoplasms at Surgery.

Nicholas Wetzel, M.D., Attend., Neurosurg.; Daniel Ruge, M.D., Attend., Surg.; Chicago (Res.), Ill. (9566)

739. The Effect of Hypophysectomy in Advanced Neoplastic Disease.

Nicholas Wetzel, M.D., Attend., Neurosurg.; Daniel Ruge, M.D., Attend., Surg.; Richard Davis, M.D., Resident, Surg.; Chicago (Res.), Ill. (9567)

740. A Study of Hypothermia With Complete Occlusion of Cerebral Circulation.

Nicholas Wetzel, M.D., Attend., Neurosurg. VAH, Asst. Prof. Surg., Northwestern U.; Loyal Davis, M.D., Cons., Surg. VAH, Prof. Surg., Northwestern U.; Ray Snider, Ph. D., Cons. Neur., VAH, Prof. Anat., Northwestern U.; F. John Lewis, M.D., Attend. Surg. VAH, Prof. Surg., Northwestern U.; Neil Meyer, M.D., Resident, Surg. VAH; Chicago (Res.), Ill. (9568)

741. Immunologic Studies on Bence Jones Protein

Paul Heller, M.D., Asst. Dir. Prof. Serv. for Research; Vincent J. Yakulis, B.S., Serol.; Chicago (W.S.), Ill. (3742)

742. The Relationship of Anticonnective Tissue and Anti-Leukocytic Antibodies

Paul Heller, M.D., Asst. Dir. Prof. Serv. Research, VAH; Hyman J. Zimmerman, M.D., Attend. Phys., VAH, Chm. Dept. Med., Prof. Med., Chicago Med. Sch.; Vincent J. Yakulis, B.S., Serol., Research Lab., VAH; Marjorie Hedrick, M.S., Biochem. Research Lab.; Chicago (W.S.), Ill. (3745)

743. Lymphosarcoma With Clinical Multiple Myeloma Features

John Peters, M.D., Resident, Med. Serv.; Jonas Valaitis, M.D., Asst. Ch. Lab. Serv.; Paul Heller, M.D., Asst. Dir. Prof. Serv. Research, Chicago (W.S.), Ill. (9367)

744. Prostatic Acid Phosphatase as a Diagnostic Test in Carcinoma of the Prostate

Jonas Valaitis, M.D., Asst. Ch., Lab. Serv.; John R. Canning, M.D., Resident, Surg. Serv., Chicago (W.S.), Ill. (9368)

745. Metastatic Carcinoma in the Cirrhotic Liver.

Bernhard Chomet, M.D., Ch. Lab. Serv.; Jonas Valaitis, M.D., Asst. Ch. Lab. Serv.; George Pearah, M.D., Resident, Path.; Chicago (W.S.), Ill. (9369)

746. Histochemical Studies of Lactic Dehydrogenase, Acid Phosphatase, and Alkaline Phosphatase in Tissues.

Jonas Valaitis, M.D., Asst. Ch. Lab. Serv.; Ona Kotov, B.S., Hist. Tech., Research Lab.; Chicago (W.S.), Ill. (9370)

747. The Fate of Platelet Isocitric Dehydrogenase Following Release from Platelets.

Paul Heller, M.D., Asst. Dir. Prof. Serv. Research; Hyman G. Weinstein, M.S., Biochem., Research Lab.; Chicago (W.S.), Ill. (10138)

748. Transmissable Leukemia (Chloroleukemia) in the Rat.

Thomas Jarrold, M.D., Ch. Hemat. Sect.; John Will, M.D., Asst. Prof. Med., Cincinnati Univ.; Cincinnati, Ohio. (3106)

749. Studies of Cell Nuclei. IV. Estimation of DPN-Synthesizing Capacity of Ehrlich Ascites Tumor Nuclei.

E. D. Hudack, M.D., Asst. Ch. RI Serv.; D. O. Brummond, Ph. D., Biochem. RI Serv.; A. P. Gibbons, Biochem., RI Serv.; D. Eros, Phys. Science Tech., RI Serv.; Cleveland, Ohio. (3132)

750. Purification of the Enzyme Polynucleotide Phosphorylase from Higher Plants.

Dewey O. Brummond, Ph. D., Biochem., RI Serv.; Cleveland, Ohio. (3133)

751. Incorporation of Radioactive Metabolites into Ribonucleic Acid and Deoxyribonucleic Acid of Ehrlich Ascites Tumor Cells.

E. D. Hudack, M.D., Asst. Ch. RI Serv.; D. O. Brummond, Ph. D., Biochem. RI Serv.; A. P. Gibbons, Biochem. RI Unit; Donald Eros, Phys. Sci. Tech., RI Serv.; Cleveland, Ohio. (10642)

752. Studies of Transduction in Mammalian Tissues.

E. D. Hudack, M.D., Asst. Ch. RI Serv.; D. O. Brummond, Ph. D., Biochem., RI Serv.; Cleveland, Ohio. (10645)

753. Comparative Biochemistry of Normal and Malignant Cells, and the Response of These Cells to Viral Infection: Phase 1: Determination of End Products of Cellular Metabolism in Tissue Culture.

Mary C. Lanning, Ph. D., Research Instr., Bact. and Biochem., Univ. Miami Sch. Med.; Catherine C. Ashley, A.B., Biochem., VAH; M. Michael Sigel, Ph. D., Assoc. Prof. Bact., Univ. Miami Sch. Med.; Coral Gables, Fla. (3213)

754. A Critical Electrophoretic Analysis of the Plasma and Urinary Proteins in Cases of Myeloma.

Marcus J. Zbar, M.D., Asst. Ch. Lab. Serv.; Catherine C. Ashley, Sc. B., Biochem.; Coral Gables, Fla. (3221)

755. Electrophoretic Patterns of Serum Proteins in Patients With Malignancies Determined with Continuous Flow Electrophoresis.

Marvin Wesley Morgan, M.D., Resid. Gen. Surg.; Catherine C. Ashley, A.B., Biochem., Gen. Med. Research; Coral Gables, Fla. (3224)

756. Antitumoral Autodefenses in Man and Their Possible Therapeutic Effect.

J. W. Finney, M.S., Research Microbiol.; D. A. Clark, Ph. D., Research Biochem.; R. H. Wilson, M.D., Ph. D., Dir. of Research, VAH, Dallas, Tex.; O. Wyss, The Univ. of Texas Radiobiological Lab., Austin, Tex. (3284)

757. Cerebral Utilization of Fructose During Insulin-Induced Hypoglycosemia in Man.

Holbrooke S. Seltzer, M.D., Ch. Metabolic Unit; Seymour Eisenberg, M.D., Asst. Ch. Med. Serv.; Dallas, Tex. (3297)

758. The Formation of Continent Substitute Bladders in Dogs, Utilizing a Segment of Distal Ileum.

Charles L. Reynolds, M.D., Resident, Urol. Surg. Serv.; Dallas, Tex. (3319)

759. Tabulation of Data on Cancer of the Larynx and Hypopharynx.

Donald A. Corgill, M.D., Ch. ENT Serv.; Dallas, Tex. (3322)

760. Hemilaryngectomy with En Bloc Neck Dissection in the Treatment of Carcinoma of the Larynx.

Daniel M. Martinez, M.D., Asst. Ch. ENT Serv.; Donald A. Corgill, M.D., Ch. ENT Serv.; Dallas, Tex. (3325)

761. A Study of the Role of Trace Metals in the Formation of the Pathology of Sarcoidosis.

Delmar O. Shields, M.D., Ch. Chest Disease Serv.; Ernest H. Byers, Ph. D., Research Chem.; Eberhard H. Foerster, Chem., Research Serv.; Dallas, Tex. (3330)

762. The Cigarette Smoke Arsenic Cancer of the Lung Problem.

Robert H. Holland, M.D., Ch. Thoracic Surg.; Russell H. Wilson, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Henry C. Lanz, Ph. D., Act. Dir. RI; Dallas, Tex. (3334)

763. The Effect of Cigarette Smoke on Respiratory System of the Rabbit.

Robert H. Holland, M.D., Ch. Thoracic Surg.; Russell H. Wilson, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Henry C. Lanz, Ph. D., Act. Ch. RI; Dallas, Tex. (3336)

764. A Study of the Methods of Quantitating and Isolating Circulating Cancer Cells in the Blood of Patients With Malignancies.

Russell H. Wilson, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Dallas, Tex. (8777)

765. A Study of the Immunologic Properties of Cancer Cells; Fractionation and Isolation of That Portion of the Malignant Cell Containing the Antigen Causing a Rise in the Antibody Titer When Injected in Animals.

James W. Finney, M.S., Bact., Research; Ernest H. Byers, Ph. D., Biochem., Research; Russell H. Wilson, M.D., Ph. D., Dir. of Research; Dallas, Tex. (10314)

766. The Role of Hyaluronidase in the Prevention of Localized Abscesses in Animals as a Result of Injection of Cancer Antigens Suspended in Freund's Adjuvant.

Ernest H. Byers, Ph. D., Biochem., Research; James W. Finney, M.S., Bact., Research; Russell H. Wilson, M.D., Ph. D., Dir. of Research; Dallas, Tex. (10317)

767. Conservation and Restoration of Hearing at Mastoid Surgery with Steroid Drugs.

Donald A. Corgill, M.D., Ch. ENT Serv.; Dallas, Tex. (10318)

768. Technical Improvement in Microscopic Ear Surgery for Infectious Disease.

Donald A. Corgill, M.D., Ch. ENT Serv.; Dallas, Tex. (10319)

770. Controlled Comparative Studies of the Life Expectancy of Persons with Non-resectable Bronchogenic Carcinoma

Berkeley Slutzker, M.D., Asst. Ch. Med. Chest Sect.; Dayton, Ohio. (3371)

771. Survey of Laryngectomized Veterans in Veterans Administration Domiciliaries.

Charles L. Johnson, Language Retraining Therap.; Dayton, Ohio. (3421)

772. Clinical Evaluation of Estradurin.

Robert K. Mookini, Jr., M.D., Ch. Resident, Urol. Sect.; Edward F. Kelly, M.D., Ch. Urol. Sect.; Dayton, Ohio. (11133)

773. The Role of Exfoliative Cytology in Diagnosis of Cancer of the Gastrointestinal Tract—A Cooperative Study with the Montgomery County Cancer Society.

William Matre, M.D., Ch. GI Sec.; Dayton, Ohio. (12031)

774. Radiobiological Studies of Experimental Tumors in Mice.

J. E. Lofstrom, M.D., Cons. VAH, Prof. Radiol., Wayne State Univ.; M. R. Sikov, Ph. D., Cons. VAH, Asst. Prof. Radiobiol., Wayne State Univ.; B. H. Pringle, Ph. D., Ch. Med. Research Lab., VAH; P. H. Daoust, M.D., Staff Radiol.; Dearborn, Mich. (3436)

775. Studies on the Amino Acid Metabolism of the Ascites Tumor and the Influence of Radiation.

J. E. Lofstrom, M.D., Cons. VAH, Prof. Radiol., Wayne State Univ.; M. R. Sikov, Ph. D., Cons. VAH, Asst. Prof. Radiobiol., Wayne State Univ.; B. H. Pringle, Ph. D., Ch. Med. Research Lab., VAH; P. H. Daoust, M.D., Staff Radiol.; Dearborn, Mich. (3439)

776. Elucidation as to the Mechanism of Partial and Whole Body Irradiation on Tumor Growth.

J. E. Lofstrom, M.D., Cons. VAH, Prof. Radiol., Wayne State Univ.; M. R. Sikov, Ph. D., Cons. VAH, Asst. Prof. Radiobiol., Wayne State Univ.; B. H. Pringle, Ph. D., Ch. Med. Research Lab., VAH; P. H. Daoust, M.D., Radiol.; Dearborn, Mich. (9085)

777. Investigation of the Mechanism of Radiation Action and the Time Relations Involved on Fluid Formation.

J. E. Lofstrom, M.D., Cons. VAH, Prof. Radiol., Wayne State Univ.; M. R. Sikov, Ph. D., Cons. VAH, Asst. Prof. Radiobiol., Wayne State Univ.; B. H. Pringle, Ph. D., Ch. Med. Research Lab., VAH; P. H. Daoust, M.D., Radiol.; Dearborn, Mich. (9086)

778. Scalene Node Biopsy in Relation to Carcinoma of the Lung.

Louis T. Palumbo, M.D., Ch. Surg. Serv.; Wendell S. Sharpe, M.D., Asst. Ch. Surg. Serv., Sec. Ch. Gen. Surg.; Donald J. Lulu, M.D., Asst. Sec. Ch. Gen. Surg.; Juan Colon-Bonet, M.D., Asst. Sec. Ch., Gen. Surg.; Raymond Vespa, M.D., Asst. Sec. Ch. Gen. Surg.; Des Moines, Iowa. (4478)

779. Comparative Study of Morbidity in the Symptomatic Treatment of Inoperable Carcinoma of the Bladder Versus Treatment With Radioactive Cobalt Sources in Nylon Thread.

O. G. Stonington, M.D., Ch. Urol.; A. L. Daywitt, M.D., Ch. Radiol.; Denver, Colo. (3473)

780. Squamous Metaplasia of the Bronchus.

E. H. Valentine, M.D., Ch. Lab. Serv.; Denver, Colo. (3499)

781. Peptic Ulceration as a Presenting Manifestation of Hyperparathyroidism.

W. Silen, M.D., Asst. Ch. Surg. Serv.; B. Eiseman, M.D., Ch. Surg. Serv.; Denver, Colo. (3506)

782. Evaluation of Leukeran in the Control of Bronchogenic Carcinoma.

Robert K. Brown, M.D.; Ben Eiseman, M.D., Ch. Surg. Serv.; John R. Durrance, M.D., Ch. Chest Sec.; Denver, Colo. (9439)

783. A Study of the Transverse Resistance and Reactance of Benign and Malignant Cells.

Albert G. Smith, M.D., Asst. Ch. Lab. Serv.; Durham, N.C. (3868)

784. Studies of Complement in Leukemia and Lymphoma.

Ernest W. Chick, M.D., Clin. Invest.; Durham, N.C. (9490)

785. Fluorescent Antibody Studies of Microorganisms, Complement and Properdin.

Ernest W. Chick, M.D., Clin. Invest.; Durham, N.C. (9491)

786. The Presence of Antibodies to Cancer Cells in Human Cancer Patients.

Angelo Spoto, M.D., Fellow in Med., Duke Med. Center; Herbert A. Saltzman, M.D., Ch. Plum. Serv., VAH; Herbert O. Sieker, M.D., Assoc. Prof. Med., Duke Med. Center; Felice Manfredi, Instr. Med. Research Fellow, Duke Med. Center; Durham, N.C. (9509)

787. Effect of Ultraviolet Irradiation Upon Several Tumor and Normal Cell Strains.

Albert G. Smith, M.D., Assist. Ch. Lab. Serv.; H. R. Cress, Ph. D., Biol.; Durham, N.C. (9510)

788. Effect of Normal Cell Nuclear Fractions on Cancer Cells.

Albert G. Smith, M.D., Assist. Ch. Lab. Serv.; Hertha R. Cress, Ph. D., Biol.; Durham, N.C. (9511)

789. Attempt to Duplicate in Animals the Glandular Hyperplasia of Hodgkin's Disease.

Joseph R. Nahon, M.D., Ch. Radiol. Serv.; East Orange, N.J. (3998)

790. Papillary Adenocarcinoma of the Kidney: Degenerative Findings.

Maxwell Malament, M.D., Ch. Urol. Sec., Surg. Serv.; Bernard I. Kahn, M.D., Resident, Surg. Serv.; East Orange, N.J. (4019)

791. The Anatomic Approach to the Study of Smoking and Bronchogenic Carcinoma.

Oscar Auerbach, M.D., Ch. Lab. Serv.; Arthur P. Stout, M.D., Cons. Lab. Serv.; East Orange, N.J. (4020)

792. Changes in the Bronchial Epithelium in Relation to Smoking, Cancer and Air Pollution.

Oscar Auerbach, M.D., Ch. Lab. Serv.; East Orange, N.J. (4023)

793. Evaluation of Scalene Lymph Nodes From Routine Autopsy Material.

Joseph M. Pawlowski, M.D., Path., Lab. Serv.; East Orange, N.J. (4024)

794. Myeloma in Mice.

Sidney Trubowitz, M.D., Asst. Ch. Med. Serv.; East Orange, N.J. (8626)

795. Isolation and Characterization of Leucocyte Alkaline Phosphatase.

Sidney Trubowitz, M.D., Asst. Ch. Med. Serv.; Donald Feldman, M.A., Ch. Biochem. Sect., Med. Research Lab.; Stanley W. Morgenstern, B.S., Biochem., Med. Research Lab.; Vincent M. Hunt, B.S., Biochem., Med. Research Lab.; East Orange, N.J. (9412)

796. A Study of Blood and Tissue Proteins in Patients With Bronchogenic Carcinoma. An Attempt to Devise a Practical Serum Test for the Differential Diagnosis of Bronchogenic Carcinoma.

Anderson Nettleship, M.D., Ch. Lab. Serv.; Fayetteville, Ark. (9479)

797. Brain Tumor Detection and Localization With Radioiodinated Human Serum.

Abraham A. Polachek, M.D., Ch. RI; Clovis M. Snyder, M.D., Resident Phys. Med. Serv.; Fort Howard, Md. (4075)

798. Radioactive Silver Metabolism in a Patient With Carcinoid.

Abraham A. Polachek, M.D., Ch. RI Serv.; Clyde B. Cope, M.D., Sect. Ch. GI; Robert F. Williard, B.S., Biochem., VAH, Fort Howard, Md.; Theodore Enns, Ph. D., Cons. VAH, Assoc. Prof. Phys. Chem., Johns Hopkins Univ.; Baltimore, Md. (4079)

799. A Study of Neoplasia in the Cirrhotic Patient.

Leonard C. Hurley, M.D., Asst. Ch. Lab. Serv.; Alice R. Dakin, M.D., Resident, Path. Serv.; Hines, Ill. (4210)

800. A Review of Ten Cases of Primary Malignant Lymphomas of the Stomach.

Oscar Harmos, M.D., Staff Phys., Path. Serv.; Victor R. Jablokow, M.D., Staff Phys., Path. Serv.; Hines, Ill. (4211)

801. Bronchiolar Carcinoma—An Interesting Clinical and Pathological Entity.

Myron E. Rubnitz, M.D., Ch. Lab. Serv.; Noble O. Correll, M.D., Staff Phys., Surg. Serv.; Donald A. Johnson, M.D., Resident Path., Lab. Serv.; Hines, Ill. (4218)

802. Malignant Tumors of the Small Bowel.

Charles B. Puestow, M.D., Ch. Surg. Serv.; Max Allen, M.D., Resident, Surg. Serv.; Hines, Ill. (4219)

803. Statistical Review of Thirty Thousand Tumors.

William S. Walsh, M.D., Ch. Oncol. Sect.; Vernon Z. Hutchings, M.D., Staff Phys., Surg. Serv., VAH; Keith Wurtz, M.D., Attend. Phys., Surg. Serv., VAH, Clin. Instr. of Surg., Stritch Sch. of Med., Loyola Univ.; Hines, Ill. (4237)

804. Blood Vascular Bed as a Pathway of Spread in Lung Cancer.

Hiram T. Langston, M.D., Ch. Thoracic Surg. Sect.; John Laws, M.D., Resident, Surg. Serv.; Clarence Heidenreich, M.D., Resident, Surg. Serv., VAH; Elizabeth McGrew, M.D., Assoc. Prof. of Surg., Univ. of Illinois Coll. of Med.; Hines, Ill. (4238)

805. The Synthesis of Collagen in Normal and Tumor Tissue.

I. Gordon Fels, Ph. D., Prin. Scientist, RI Serv.; Joseph Greco, B.S., Biochem., RI Serv.; Ervin Kaplan, M.D., Act. Assoc. Dir. RI Serv., Staff Phys., Med. Serv.; Hines, Ill. (10337)

806. Study of Comparative Effects of Myleran and 6-Mercaptopurine in the Treatment of Chronic Myelocytic Leukemia.

Rudolph M. Flasdick, M.D., Staff Phys.; Jethro B. Rochelle, III, M.D., Staff Phys.; Houston, Tex. (4452)

807. Experimental Studies With Tumor Tissues.

Robert L. Bradley, M.D., Ch. Surg. Serv.; Siegfried Werthammer, M.D., Cons. Path.; John W. Daulton, B.S., Ch. Path. Tissue Unit, Lab. Serv.; Huntington, W. Va. (4804)

808. Effect of Purified Human Pituitary Growth Hormone on Metastatic Cancer Tissue, Bone Marrow of Patients With Hypoplastic Anemia and Fat Metabolism.

E. L. Walsh, M.D., Ch. Med. Serv.; S. Werthammer, M.D., Cons. Path.; J. Daulton, B.S., Ch. Path. Tissue Unit, Lab. Serv.; Huntington, W. Va. (4822)

809. Fate of Tumor in Mice with Reduced Metabolism.

Robert L. Bradley, M.D., Ch. Surg. Serv.; Huntington, W. Va. (10870)

810. Seroflocculating Steroids.

Robert T. Blickenstaff, Ph. D., Biochem., Gen. Med. Research; Indianapolis, Ind. (9133)

811. Identification of "Antigen" from Cancerous Liver.

Robert T. Blickenstaff, Ph. D., Biochem., Gen. Med. Research; Indianapolis, Ind. (9134)

812. Effect of Human Growth Hormone on Thyroid Function.

Leo Oliner, M.D., Ch. RI Serv.; Indianapolis, Ind. (9140)

813. The Use of the Secretin-test in the Diagnosis of Pancreatic Disease.

Philip A. Christiansen, M.D., GI Sec. Ch.; Indianapolis, Ind. (10886)

814. Efficacy of Esophogeal, Gastric and Colon Saline Lavage in the Cytologic Diagnosis of Malignancy.

Philip A. Christiansen, M.D., GI Sec. Ch.; Indianapolis, Ind. (10887)

815. Genesis of Neoplasms: Autogenous Transplantation of Embryo Skin to Adult in the Leopard Frog.

Olan R. Hyndman, M.D., Ch. Neurosurg. Serv.; Iowa City, Iowa. (4830)

816. Case Finding Method for Cancer of the Lung.

Julius G. Baron, M.D., Ch. Radiol. Serv.; Iowa City, Iowa. (8548)

817. Dilutional Anemia in Leukemia and Allied Diseases.

David T. Kuang, M.D., Phys., Med. Serv.; Richard E. Peterson, M.D., Ch. RI Serv.; David C. Funk, M.D., Clin. Invest.; Robert F. Cech, M.D., Clinician RI Serv.; Mark L. Armstrong, M.D., Phys. Med. Serv.; Iowa City, Iowa. (9578)

818. Sputum Studies in Cases of Cancer of the Lung.

Julius G. Baron, M.D., Ch. Radiol. Serv.; Iowa City, Iowa. (9581)

819. Lymphatic Drainage of the Extremities.

J. Harold Conn, M.D., Ch. Surg. Serv.; Jackson, Miss. (10902)

820. Plasma Catalase.

H. N. Naumann, M.D., Path., Memphis, Tenn.; J. V. Cockrell, M.D., Dir. Prof. Serv.; Jackson, Miss. (10903)

821. Immunology Studies with Hamster Tumors.

J. Harold Conn, M.D., Ch. Surg. Serv.; William R. Fain, M.D., Asst. Ch. Dept. of Orth.; Jackson, Miss. (10904)

822. Bronchogenic Carcinoma—Early Cytological Diagnosis Provided and Limited to Sputum.

Elizabeth Ferrington, M.D., Ch. Lab. Serv.; Jackson, Miss. (10905)

823. Transplantation of Malignant Tumors by Use of Malignant Cells Which Circulate in the Blood Stream.

William R. Fain, M.D., Asst. Ch. Dept. of Orth.; J. Harold Conn, M.D., Ch. Surg. Serv.; John W. Bowlin, M.D., Resident, Surg. Serv.; Jackson, Miss. (10906)

824. The Metabolic Effects of Nitrogen Mustard: Changes in Adrenal Medullary and Cortical Activity.

John W. Bowlin, M.D., Resident, Surg. Serv., VAC; James D. Hardy, M.D., Prof. and Chm. Dept. of Surg., Univ. of Mississippi; William R. Fain, M.D., Asst. Ch. Dept. of Orth., VAC; Jackson, Miss. (10907)

825. Early Life Experiences and the Occurrence of Subsequent Cancer.

Landon C. Peoples, Clin. Psychol. Intern; J. V. Cockrell, M.D., Dir. Prof. Serv.; Fred Y. Billingslea, Ph. D., Ch. Psychol., VAC; Gerald R. Pascal, Ph. D., Dir. Clin. Tr., Psychol. Serv. Cent., Univ. of Tenn.; William Jenkins, Ph. D., Univ. of Tenn.; Jackson, Miss. (10908)

826. Metastatic Malingnancy of the Ocular Globe in Generalized Malignant Disease.

Leo L. Mayer, M.D., Ch. Ophth. Sect.; Thomas D. Corbett, M.D., Resident, Ophth.; Jackson, Miss. (10909)

827. Cytologic Examination of Sputum in Patients With and Without Chronic Pulmonary Diseases.

James A. Turner, M.D., Ch. Lab. Serv., VAH; Robert E. Stowell, M.D., Ch. Dept. of Path., Univ. of Kans. Med. Cent., Kansas City, Kans.; Kansas City, Mo. (4948)

828. X-Ray and Nitrogen Mustard in the Treatment of Inoperable Carcinoma of the Lung.

Charles E. Andrews, M.D., Ch. Med. Serv.; Marvin F. Westfall, M.D., Ch. Radiol. Serv.; Kansas City, Mo. (4951)

829. The Metabolic Effects and Body Compartments Changes in Simulated Chronic Intestinal Bleeding.

Paul R. Schloerb, M.D., Cons. Surg., VAH, Asst. Prof. Surg., Univ. of Kansas Med. Center; Marie H. Carr, M.S., Biochem., VAH; Kansas City, Mo. (4959)

830. Studies on a New "Phosphatido-Peptide Like" Fraction in Normal and Cancerous Tissues.

Clyde G. Huggins, Ph. D., Asst. Prof. Pharm., Univ. of Kansas Med. Center; David V. Cohn, Ph. D., Prin. Scien. RI and Research Lab., VAH; Kansas City, Mo. (4989)

831. Mitochondrial Physiology.

Berton C. Pressman, Ph. D., Biochem. RI Serv.; Kansas City, Mo. (9606)

832. Effect of Induced Electrolyte Alterations on Tumor Growth.

George W. Higgins, M.D., Ch. Surg. Serv., VAH; Paul R. Schloerb, M.D., Cons. Surg., VAH, Asst. Prof. Surg., Univ. of Kansas Med. Center, Kansas City, Kans.; Marie H. Carr, M.S., Biochem., VAH; Kansas City, Mo. (9607)

833. Comparative Evaluation of Millipore Filter, Papanicoleaou Smear and Cell Block as Methods for Finding Tumor Cells in Various Body Fluids.

Clarence L. Chester, M.D., Ch. Path. Sect., VAH; Kerrison Juniper, Jr., M.D., Cons., VAH, Asst. Prof. of Med., University of Arkansas; Little Rock, Ark. (5060)

834. The Metabolism of Abnormal Serum Proteins in Multiple Myeloma.

William H. Perkins, M.D., Ch. RI Serv.; James E. Doherty, M.D., Ch. Card. Sect.; Eugene J. Towbin, M.D., Ph. D., Asst. Dir. of Prof. Serv. for Research; Little Rock, Ark. (5077)

835. The Preparation of Fluorinated Pyrimidines and Their Derivatives.

Jacob Shapira, Ph. D., Prin. Scien. RI Serv.; Little Rock, Ark. (5082)

836. Identification of a Nucleic Acid Inhibitor From the Liver.

James S. Dinning, Ph. D., Head, Dept. of Biochem., Univ. of Arkansas Sch. of Med.; Jacob Shapira, Ph. D., Prin. Scien., RI Serv., VAH; Little Rock, Ark. (5083)

837. The Effect of Deoxyribonucleic Acids on Human Leukemia when Administered Intravenously.

Jacob Shapira, Ph. D., Prin. Scien. RI Serv.; Little Rock, Ark. (5085)

838. Synthesis of Thymine Labeled with Tritium in the Methyl Group.

Jacob Shapira, Ph. D., Prin. Scien. RI Serv.; Little Rock, Ark. (5086)

839. Synthesis of Uracil Labeled with Tritium.

Jacob Shapira, Ph. D., Prin. Scien. RI Serv.; Little Rock, Ark. (5087)

840. Synthesis of Thymine Labeled with Tritium in the Pyrimidine Ring.

Jacob Shapira, Ph. D., Prin. Scien. RI Serv.; Little Rock, Ark. (5093)

841. Identification of Pyrimidine Derivatives in the Urine of Patients with Leukemia.

Jacob Shapira, Ph. D., Prin. Scien. RI Serv.; Little Rock, Ark. (5094)

842. Comparison of the Microradiographic Appearances of Bony Structures Before and After Decalcification Utilizing Radiographic Techniques Before Decalcification and Conventional Histopathologic Techniques After Decalcification.

I. Meschan, M.D., Prof and Dir. Dept. Radiol, North Carolina Baptist Hosp., Inc.; R. P. Morehead, M.D., Path., Univ. of Arkansas Med. Center; C. S. Pool, M. D., Ch. Radiol. Serv., VAH; Little Rock, (No. Little Rock Div.), Ark. (6625)

843. Microradiography of the Lungs.

C. S. Pool, M.D., Ch. Radiol. Serv.; C. C. Ault, Ch. Cont. Treat. Serv.; Little Rock (No. Little Rock Div.), Ark. (6626)

844. The Study of Nucleic Acid Metabolism of Human Leukocytes.

Jacob Shapira, Ph. D., Prin. Scien. RI Serv.; Little Rock, Ark. (10987)

845. The Study of Nucleic Acid Metabolism of Human Leukocytes.

Jacob Shapira, Ph. D., Prin. Scientist, RI Serv.; Little Rock, Ark. (10987)

846. A Micromethod for the Assay of the Metabolic Activities of White Blood Cells.

Jacob Shapira, Ph. D., Prin. Scientist, RI Serv.; Little Rock, Ark. (10988)

847. Purification of Compounds Resulting from Tritiation of Thymidine.

Jacob Shapira, Ph. D., Princ. Scientist, RI Serv.; Little Rock, Ark. (10989)

848. The Sodium and Potassium Content of Human Leukemia Cells.

Eugene J. Towbin, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Little Rock, Ark. (10990)

849. Protection Against X-Radiation Injury.

N. B. Kurnick, M.D., Ch. Hemat. Sect., VAH; B. Massey, M.S., Research Asst., Univ. of California at Los Angeles; G. Sandeen, B.S., Tech., Univ. of California at Los Angeles; Long Beach, Calif. (5146)

850. Effect of Age on the Desoxyribonuclease and Desoxyribonuclease Content of Tissues.

N. B. Kurnick, M.D., Ch. Hemat. Sect., VAH; Robert L. Kernen, B.S., Tech., Univ. of California at Los Angeles Med. Sch.; Long Beach, Calif. (5147)

851. Malignant Carcinoid, Primary Site Probably Bronchial Adenoma.

W. E. Escovitz, M.D., Staff Phys. Pulm. Serv.; I. Reingold, M.D., Ch. Path. Anat.; Long Beach, Calif. (8421)

852. Normal and Abnormal Serum Proteins.

C. M. Carpenter, M.D., Ph. D., Cons. VAH, Prof. Infect. Diseases, Univ. of California at Los Agneles Med. Sch.; Frank W. Ellis, M.D., Ch. Oncol. Sec.; Charles L. Heiskell, M.D., Asst. Research Immunol., Univ. of California at Los Angeles Med. Sch.; Donald W. Leik, M.D., Ch. Med. Serv., VAH; Kent H. Thayer, M.D., Ch. Allergy Sect.; Long Beach, Calif. (8834)

853. Study to Determine Reasons for Failure of 100 Cancer Patients to Return a Tumor Registry Questionnaire.

Frank V. Carollo, Clin. Social Worker; Long Beach, Calif. (8840)

854. Diagnostic Serum Profile.

Charles M. Carpenter, M.D., Ph. D., Cons. VAH, Prof. of Infect. Diseases, Univ. of California at Los Angeles Med. Sch.; Charles L. Heiskell, M.D., Asst. Research Immunol., Univ. of of California at Los Angeles Med. Sch.; Donald W. Leik, M.D., Ch. Med. Serv., VAH; Benjamin E. Konwaler, M.D., Ch. Lab. Serv.; Frank W. Ellis, M.D., Ch. Oncol. Sect.; Long Beach, Calif. (10713)

855. Metabolic Studies in Malignant Disease With Special Reference to Multiple Myeloma.

William S. Adams, M.D., Attend. Spec. Inter. Med., VAC, Prof. Med., Univ. of California at Los Angeles Med. Cen.; Samuel H. Bassett, M.D., Asst. Dir. Prof. Serv. for Research, VAC; William G. Figueroa, M.D., Attend. Phys., Inter. Med., VAC, Asst. Prof. Med., Univ. of California at Los Angeles, Med. Cen.; Dorothy Mulcare, B.S., Dietitian, VAC; Los Angeles, Calif. (5598)

856. Chemical Studies on Human Plasma Proteins in Malignant Disease.

Clyde A. Dubbs, Ph. D., Ch. Biochem. Research Serv.; Los Angeles, Calif. (5622)

857. Biosynthesis of Histamine and Histidine Decarboxylase and Its Competitive Inhibition: Biogenesis of Pharmacologically Active Amines in Neoplasms.

William G. Clark, Ph. D., Sect. Ch. Phy.-Pbarm.; Los Angeles, Calif. (5713)

858. Study of Chemotherapeutic Agents in Disseminated Prostatic Cancer.

Willard E. Goodwin, M.D., Sect. Ch. Urol.; Chester C. Winter, M.D., Attend. Surg., VAC, Asst. Prof. Urol., Univ. of California at Los Angeles Med. Center, Urol. House Staff, VAC; Los Angeles, Calif. (5736)

859. The Use of Bioflavanoids as an Antihemorrhagic Factor in Tonsillectomies.

C. S. Mumma, M.D., Sect. Ch. EENT; R. B. Aronsohn, M.D., Resident Otolaryng.; I. Kim, M.D., Resident Otolaryng.; Los Angeles, Calif. (5765)

860. Clinical Evaluation of Livingston Tissue Lysate in the Control of Advanced Malignant Disease.

Theodore Shohl, M.D., Ch. Phys.; Los Angeles, Calif. (5772)

861. Electron Microscopy of Pathological Human Skin.

E. L. Laden, M.D., Attend. Med., VAC, Asst. Clin. Prof. Med., Univ of California at Los Angeles Med. Center; J. O. Erickson, Ph. D., Biophysicist, VAC; Los Angeles, Calif. (5854)

862. A Study of Iron Absorption in Malignant States.

William G. Figueroa, M.D., Attend. Phys., VAC, Asst. Prof. Med., Univ. of California at Los Angeles Med. Center; Stewart G. Tuttle, M.D., Clin. Invest., VAC; Samuel H. Bassett, M.D., Asst. Dir. Prof. Serv. for Research; William S. Adams, M.D., Attend. Intern. Med., VAC, Assoc. Prof. Med. Univ. of California at Los Angeles Med. Center; Los Angeles, Calif. (5860)

863. Orally Administered P^{32} for Pain Relief in Patients With Malignancies Metastatic to Bone.

W. H. Blahd, M.D., Ch. RI Serv., VAC; D. E. Burke, M.D., Attend. Urol., VAC, Clin. Instr. Urol., Univ. California at Los Angeles Med. Center; Los Angeles, Calif. (5868)

864. Electron Microscopy of Ehrlich Ascites Tumor Mouse Cells and Isolated Nuclei.

N. Baker, Ph. D., Prin. Scien., Asst. Ch. Scien. Sect., RI Serv.; M. Tubis, M.S., Ch. Biochem.; J. O. Erickson, Ph. D., Biophysicist, VAC; M. Fields, M.S., Lab. Tech., Univ. of California at Los Angeles Med. Center; Los Angeles, Calif. (5876)

865. *In Vivo* Effects of Heparin Treatment on the Growth of the Mouse Ehrlich Ascites Tumor.

M. Tubis, M.S., Ch., Biochem.; N. Baker, Ph. D., Prin. Scien.; A. M. Breslau, M.A., Hist.; Los Angeles, Calif. (5880)

866. Evaluation of Radiotherapy in the Treatment of Lung Carcinoma.

Justin J. Stein, M.D., Cons. Oncol., VAC, Prof. Radiol., Univ. of Calif. at Los Angeles, Med. Center; William A. Gore, M.D., Ch. Radiotherapy, VAC; Los Angeles, Calif. (8439)

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867. Immune Mechanisms in Thyroid Disease.

J. Thomas Dowling, M.D., Assoc. Ch. Metab. Sect.; Lucien B. Guze, M.D., Clin. Invest.; E. T. Peterson, B.A., Ch. Serol.; David H. Solomon, M.D., Attend. Med., VAC, Assoc. Prof. Med., Univ. of Calif. at Los Angeles Med. Center; Los Angeles, Calif. (9162)

868. Secondary Malignancy of the Penis.

John Farrer, M.D., Resident, Urol.; Ben Fishkin, M.D., Act. Ch. Lab.; Los Angeles, Calif. (9205)

869. The Use of Arsenic-74 for the Localization of Tumors of the Liver and Thyroid.

W. H. Blahd, M.D., Ch. Ri. Serv.; R. A. Nordyke, M.D., Asst. Ch. Clin. Sec., RI Serv.; Los Angeles, Calif. (9206)

870. Electrophoresis of Plasma and Urinary Proteins in Malignant Disease.

William S. Adams, M.D., Attend. Spec., Inter. Med., VAC; Samuel H. Bassett, M.D., Asst. Dir., Prof. Serv. Research VAC; William G. Figueroa, M.D., Attend. Phys., Inter. Med., VAC, Asst. Prof. Med., UCLA-Med. Cent.; Los Angeles, Calif. (9879)

871. A Study of the Relationship of Arsenic to Proteins and Other Components of Human Tumor.

George R. Kingsley, M.S., Ch. Biochem.; Roscoe R. Schaffert, A.B., Biochem.; Gloria Getchell, A.B., Biochem.; Thomas E. Jones, Jr., M.D., Resident Path.; Los Angeles, Calif. (9880)

872. Serum Acid Phosphatase Content of the Blood of Patients With Carcinoma of the Prostate Gland.

Henry I. Berman, M.D., Ch. Urol. Sect.; George B. Owens, Med. Tech., Lab. Serv.; Louisville, Ky. (5432)

873. Surgery of Carcinoma of the Lung.

Clarence E. Claugus, M.D., Asst. Ch. Surg. Serv.; Louisville, Ky. (5448)

874. Evaluation of Scalene Node Biopsy.

Wreno M. Hall, M.D., Resident Surg.; Louisville, Ky. (5454)

875. Carcinoid Syndrome. A Review of Two Cases.

Elbert G. Christian, M.D., Resident Med., VAH; Malcolm M. Stanley, M.D., Cons. Prof. Experiment. Med., Univ. Louisville Sch. Med.; Thomas D. Stevenson, M.D., Cons. and Asst. Prof. Med., Univ. Louisville Sch. Med.; Louisville, Ky. (5471)

876. Partition of Selenium-75 in the Particulate Matter of Rat Liver.

Kenneth P. McConnell, Ph. D., Biochem., RI Serv.; Dorothy M. Roth, B.S., Biochem., RI Serv.; Louisville, Ky. (5484)

877. Gamma-Ray Spectrometry in Selenium-75 Analysis.

Kenneth P. McConnell, Ph. D., Biochem. RI Serv., VAH; Douglas A. Ross, M.D., Clin. Staff, Med. Div., Oak Ridge Inst. Nuclear Studies, Oak Ridge, Tenn.; Louisville, Ky. (5485)

878. Role of Selenium in Various Enzyme Systems.

Kenneth P. McConnell, Ph. D., Biochem., RI Serv., VAH; Oscar N. Miller, Ph. D., Assoc. Prof. of Biochem. and Med., Tulane Univ., Sch. Med., New Orleans, La., (5486)

879. Presence of Selenium-75 in Lipoproteins.

Kenneth P. McConnell, Ph. D., Biochem., RI Serv., VAH; Robert S. Levy, Ph. D., Biochem., Asst. Prof., Univ. of Louisville Med. Sch.; Louisville, Ky. (5487)

880. Description of Selenium-75 Disappearance in Dog Blood.

Kenneth P. McConnell, Ph. D., Biochem. RI Serv.; Dorothy M. Roth, B.S., Biochem. RI Serv.; Louisville, Ky. (5490)

881. Identity of Selenium Compounds; The Non-cytochrome-c Component That Reacts With Cytochrome-c.

Kenneth P. McConnell, Ph. D., Biochem. RI Serv.; Dorothy M. Roth, B.S., Biochem. RI Serv.; Louisville, Ky. (5492)

882. Maximum Permissible Body Burden and Maximum Permissible Concentration of Selenium-75 In Air and Water.

Kenneth P. McConnell, Ph. D., Biochem. RI Serv.; Louisville, Ky. (5493)

883. Neutron Activation Analysis of Selenium In Various Foods and Tissue Components.

Kenneth P. McConnel, Ph. D., Biochem. RI Serv.; Louisville, Ky. (5495)

884. Time-Dose Study of Zinc-65 in Dog Blood.

Maurice Nataro, M.D., Ch. RI Serv.; Dorothy M. Roth, B.S., RI Serv.; Louisville, Ky. (5496)

885. Distribution of Zinc-65 in Dog Serum Proteins Determined by Paper Electrophoresis *In Vivo* and *In Vitro*.

Maurice Nataro, M.D., Ch. RI Serv; Dorothy M. Roth, B.S., Biochem. RI Serv.; Louisville, Ky. (5497)

886. *In Vitro* Binding of Selenium-75 In Dog Erythrocytes.

Kenneth P. McConnell, Ph. D., Biochem., RI Serv.; Dorothy M. Roth, B.S., Biochem., RI Serv.; Louisville, Ky. (10736)

887. Passage of Selenium-75 Through the Placenta and Also Into the Milk of the Dog.

Kenneth P. McConnell, Ph. D., Biochem., RI Serv.; Dorothy M. Roth, B.S., Biochem., RI Serv.; Louisville, Ky. (10737)

888. Presence of Selenium-75 In Dog Bile and its Fractionation With Special Reference to Taurocholic Acid.

Kenneth P. McConnell, Ph. D., Biochem., RI Serv., VAH; Oscar W. Portman, M.D., Asst. Prof., Dept. Nutrition, Harvard Univ. Public Health, Boston, Mass.; Louisville, Ky. (10738)

889. Incorporation of Selenium–75 Into Cytochrome-c.

Kenneth P. McConnell, Ph. D., Biochem. RI Serv., VAH; R. Duncan Dallam, Ph. D., Assoc. Prof. Biochem. Dept., Univ. Louisville Med. School; Louisville, Ky. (10739)

890. Distribution of Vitamin E in the Particulate Matter of Rat Liver.

Kenneth P. McConnell, Ph. D., Biochem., RI Serv., VAH, Louisville, Ky.; John G. Bieri, Ph. D., Biochem. Lab. of Nutrit. and Endocrin., NIH, Bethesda, Md. (10740)

891. Pathway of Selenium Entry Into Protein.

Kenneth P. McConnell, Ph. D., Biochem., RI Serv.; Louisville, Ky. (10741)

892. Multiple-Myeloma: Selective Selenium Binding Capacity of Multiple-Myeloma Serum Proteins.

Kenneth P. McConnell, Ph. D., Biochem., RI Serv.; Dorothy M. Roth, B.S., Biochem., RI Serv.; Louisville, Ky. (10742)

893. A Ten-Year Statistical Study of Carcinoma of the Penis.

Henry I. Berman, M.D., Ch. Urol. Sect.; Clyde E. Blackard, M.D., Ch. Resident Urol.; Louisville, Ky. (10747)

894. Evaluation of Diethylstilbestrol Di-trimethylacetate in the Treatment of Prostatic Cancer.

Jerre L. Noland, Ph. D., Ch. Med. Research Lab.; Henry I. Berman, M.D., Ch. Urol. Sect.; Mildred C. Edinger, B.S., Med. Tech.; Maurice Nataro, M.D., Ch. RI. Serv.; Louisville, Ky. (10748)

895. Treatment of Malignancies by Regional Perfusion of Alkylating and Other Agents by Use of the Heart-Lung Pump Oxygenator.

Joseph E. Hamilton, M.D., Ch. Surg. Serv.; Phil J. Harbrecht, M.D., Asst. Ch. Surg. Serv.; Jerre L. Noland, Ph. D., Ch. Med. Research Lab.; Maurice Nataro, M.D., Ch. RI Serv.; Louisville, Ky. (10750)

896. Diethylstilbestrol Di-trimethyl Acetate a Long-Acting Estrogen.

Jerre L. Noland, Ph. D., Ch. Med. Research Lab.; Louisville, Ky. (10756)

897. Blood Serum Test for Leukemia and Neoplasia.

Maurice Nataro, M.D., Ch. RI., Serv.; Mildred C. Edinger, B.S., Med. Tech.; Jerre L. Noland, Ph. D., Ch. Med. Research Lab.; Louisville, Ky. (10757)

898. The Malignant Carcinoid Syndrome: A Review of a Case with Autopsy Findings.

Louis Y. Peskoe, M.D., Asst. Ch. Med.; Elbert G. Christian, M.D., Ward Phys., VAH; Malcolm M. Stanley, M.D., Cons. Intern. Med., VAH, Prof. of Experiment. Med., Univ. of Louisville Sch. of Med.; Thomas D. Stevenson, M.D., Cons. Intern. Med., VAH, Asst. Prof. of Med., Univ. of Louisville Sch. of Med.; Louisville, Ky. (10758)

899. Further Fractionation of Gamma Globulin.

Paul X. Callahan, Ph. D., Research Biochem.; Jerre L. Noland, Ph. D., Ch. Med. Research Lab.; Mildred E. Lewis, B.S., Phys. Science Aid; Louisville, Ky. (10759)

900. Carcinoma of Tongue and Floor of the Mouth.

Joseph E. Hamilton, M.D., Ch. Surg. Serv.; Wreno M. Hall, M.D., Ch. Resident Orth.; Phil J. Harbrecht, M.D., Asst. Ch. Surg. Serv.; Louisville, Ky. (10802)

901. Comparison of Papanicolaou Smears, Cell Blocks, Moist Preparations and the Use of the Phase Microscope in the Diagnosis of Malignancy in Body Fluids.

Moses Koel, M.D., Ch. Lab. Serv.; Walter H. Ordway, Bact.; Armand J. Cote, Med. Tech.; Manchester, N.H. (10844)

902. Screening of Prostatic Secretions for Carcinoma in Domiciliary Members.

L. W. Fix, M.D., Asst. Ch. Lab. Serv., VAC; L. I. Platt, M.D., Instr. Path., George Washington Univ. Med. Sch., Washington, D.C.; E. R. Swepston, M.D., Ch. Dom. Serv., VAC; V. Balkus, M.D., Ch. GU Serv., VAC; Martinsburg, W.Va. (5884)

903. Uptake of Radiosulfate by Varied Human Neoplasms.

Raymond G. Gottschalk, M.D., Ch. Lab. Serv., VAC; Phyllis O. Miller, B.S., Biochem. VAC; Paul Bell, Jr., M.S., Biol., VAC; Louis K. Alpert, M.D., Cons. to VA, Clin. Prof. of Med., George Wash. Univ. Sch. of Med.; Martinsburg, W. Va. (5927)

904. Inhibition of Transplanted Mouse Tumors by Radiosulfate.

Raymond G. Gottschalk, M.D., Ch. Lab. Serv.; Henry H. Grantham, Jr., B.S., Med. Biol. Tech.; Paul Bell, Jr., M.S., Biol.; Martinsburg, W. Va. (5928)

905. Pilot Experiment with S–35 Injected Rats.

Raymond G. Gottschalk, M.D., Ch. Lab. Serv.; Henry H. Grantham, Jr., B.S., Med. Biol. Tech.; Phyllis O. Miller, B.S., Biochem.; Martinsburg, W. Va. (5929)

906. Studies of Effects and Uptake of S–35 Sulfate in Patients with Chondrosarcoma.

Raymond G. Gottschalk, M.D., Ch. Lab. Serv.; Louis K. Alpert, M.D., Cons., VAC, Clin. Prof. Med., George Washington Univ. Sch. of Med.; Phyllis O. Miller, B.S., Biochem., VAC; Paul Bell, Jr., M.S., Biol.; Martinsburg, W. Va. (8823)

907. Study of Effects of Chemotherapeutic Agents Administered During Prolonged Controlled Hypothermia.

John S. Paul, M.D., Ch. Thoracic Surg.; Martinsburg, W. Va. (9217)

908. Cultivation of Mouse Leukemia Agent in Tissue Culture.

Wolcott B. Dunham, M.D., Asst. Dir. Prof. Serv. for Research, Dir. Med. Research Lab.; Frances M. Ewing, Tech. Virus-Tissue Culture Sect., Med. Research Lab., VAH; Anna Dean Dulaney, M.D., Assoc. Prof. of Microbiol., Univ. of Tennessee Coll. of Med.; Memphis, Tenn. (5966)

909. Evaluation of Cytological Laboratory Findings in Cancer Diagnosis.

Herman Bernhardt, M.D., Asst. Ch. Lab. Serv.; Joseph M. Young, M.D., Ch. Lab. Serv.; Memphis, Tenn. (6002)

910. Estimation and Significance of Plasma Catalas.

Hans N. Naumann, M.D., Ch. Biochem. Sect.; Memphis, Tenn. (6004)

911. Reactions of Myeloma Globulins.

Hans N. Naumann, M.D., Ch. Biochem. Sect., Lab. Serv.; Memphis, Tenn. (6020).

912. Review of Malignant Lymphomas.

Herman Bernhardt, M.D., Asst. Ch. Lab. Serv.; Jimmy L. Verner, M.D., Resident, Lab. Serv.; Memphis, Tenn. (6068)

913. Comparative Effect of 6-Mercaptopurine Riboside and 6-Mercaptopurine in Therapy of Acute Leukemia.

Constantin Cope, M.D., Cancer Chemotherapy Research Assoc., Med. Serv.; Frank S. Dietrich, M.D., Ch. Med. Serv.; Memphis, Tenn. (6122)

914. Effect of Mannitol Mustard on Bronchogenic Carcinoma, Malignant Melanoma and Lymphomas.

Constantin Cope, M.D., Cancer Chemotherapy Research Assoc., Med. Serv.; Frank S. Dietrich, M.D., Ch. Med. Serv.; Memphis, Tenn. (6123)

915. Optimal Dosage and Toxicity of Bayer A–139(2,5-Bis(1-Aciridinyl)-s,6-Bis(2-methoxyethoxy)-1,4-benzoquinone.

Frank S. Dietrich, M.D., Ch. Med. Serv.; Gerald I. Plitman, M.D., Ch. Gen. Med. and Hemat. Sect.; Memphis, Tenn. (6124)

916. Relative Values of Nitromin and Nitrogen Mustard in Cancer Therapy.

Constantin Cope, M.D., Cancer Chemotherapy Research Assoc., Med. Serv.; Frank S. Dietrich, M.D., Ch. Med. Serv.; Memphis, Tenn. (6125)

917. Induced Formation of Enzymes in Rat Liver. C^{14}-Orotic Acid.

Norman D. Lee, Ph. D., Prin. Scien., RI Serv.; Memphis, Tenn. (6130)

918. Induced Enzyme Formation in Rat Liver. Carcinostatic Antimetabolites.

Norman D. Lee, Ph. D., Prin. Scien. RI Serv.; Memphis, Tenn. (6131)

919. Free-Cell Diagnosis of Cancer.

Herman Bernhardt, M.D., Asst. Ch. Lab. Serv.; Memphis, Tenn. (8766)

920. Determination of Whether Chlorophyllin is Bound by Cancer Tissue.

Constantin Cope, M.D., Cancer Chemotherapy Research Assoc., Med. Serv.; Memphis, Tenn. (8952)

921. Reconstruction of the Upper Trachea (Cervical Trachea) with the Use of Nylon Tubing Covered with Skin Graft.

Thomas A. Maguda, M.D., Ch. Otolaryng. Sect.; John B. Casey, M.D., Asst. Ch. Otolaryng. Sect.; Ben T. Gregory, M.D., Resident, Surg. Serv.; James W. Tipton, M.D., Resident, Surg. Serv.; Memphis, Tenn. (9019)

922. Electron Microscopic Studies on Virus-Like Particles in Human Leukemic Cells.

Wolcott B. Dunham, M.D., Asst. Dir. Prof. Serv. for Research, Dir. Med. Research Lab.; Malcolm V. Parker, M.S., Tech. Virus–Tissue Culture Sect. Med. Research Lab.; Frances M. Ewing, Tech., Virus-Tissue Culture Sec., Med. Research Lab.; Memphis, Tenn. (9022)

923. Carcinamatous Changes in Scars.

Ralph F. Bowers, M.D., Ch. Surg. Serv.; Joseph M. Young, M.D., Ch. Lab. Serv.; Memphis, Tenn. (10464)

924. Evaluation of Forearm Balanced Orthesis Kit.

Bruce B. Sutton, M.D., Ch. PMR Serv.; Memphis, Tenn. (10476)

925. Frequency and Significance of Pulmonary Osteoarthropathy in Bronchogenic Carcinoma.

Irving K. Ettman, M.D., Asst. Ch. Radiol. Serv.; Benjamin E. Greenberg, M.D., Ch. Radiol. Serv.; Memphis, Tenn. (10477)

926. Cultivation of Human Cancer Cells.

Wolcott B. Dunham, M.D., Asst. Dir. Prof. Serv. for Research, Dir. Med. Research Lab.; Constantin Cope, M.D., Cancer Chemotherapy Research Assoc., Med. Serv.; Frances M. Ewing, Tech., Virus-Tissue Culture Sec., Med. Research Lab.; Malcolm V. Parker, M.D., Tech. Virus-Tissue Culture Sect., Med. Research Lab.; Memphis, Tenn. (10492)

927. Cultivation of Mouse Leukemia Cells.

Wolcott B. Dunham, M.D., Asst. Dir. Prof. Serv. for Research, Dir. Med. Research Lab.; Frances M. Ewing, Tech., Virus-Tissue Culture Sect., Med. Research Lab.; Malcolm V. Parker, M.S., Tech., Virus-Tissue Culture Sect., Med. Research Lab.; Memphis, Tenn. (10491)

928. Induced Enzyme Formation in Rat Liver. C^{14}-Lysine Studies.

Norman D. Lee, Ph. D., Prin. Scien. RI Serv.; Memphis, Tenn. (10500)

929. Induced Enzyme Formation in Rat Liver. Intracellular Metabolites.

Norman D. Lee, Ph. D., Prin. Scien. RI Serv.; Memphis, Tenn. (10810)

930. Bronchogenic Carcinoma.

Henry W. Walter, M.D., Career Resident Radiol. Serv.; Norman Blank, M.D., Asst. Ch. Radiol. Serv., VAH; Daniel L. Fink, M.D., Attend. VAH, Clin. Assoc. Prof. Radiol., Univ. of Minnesota; Minneapolis, Minn. (6185)

931. Sialography.

John E. Indihar, M.D., Career Resident Radiol. Serv.; Minneapolis, Minn. (6191)

932. The Purine Excretion of Patients with Advanced Cancer.

Edward W. Humphrey, M.D., Ph. D., Phys. Surg. Serv.; Minneapolis, Minn. (6237)

933. Comparative Carcinogenicities of N-(2-Fluorenyl)acetamide and N-(2-Fluorenyl)butyramide.

Herman D. Bentz, M.D., Resident, Surg. Serv.; Helmut R. Gutmann, M.D., Biochem.; Minneapolis, Minn. (6316)

934. Relative Carcinogenicity of N-(2-Fluorenyl)acetamide after Oral and Topical Administration to the Rat.

Herman D. Bentz, M.D., Resident Surg. Serv.; Helmut R. Gutmann, M.D., Biochem.; Minneapolis, Minn. (6317)

935. A Comparison of the Ionic Fluxes in Normal Liver With Those in Hepatomas.

Edward W. Humphrey, M.D., Ph. D., Phys. Surg. Serv., VAH; John A. Johnson, M.D., Ph. D., Cons., VAH, Assoc. Prof. Phy., Univ. of Minnesota; Minneapolis, Minn. (6324)

936. Interaction of Model Quinoneimides With Proteins.

Charles C. Irving, Ph. D., Biochem., Univ. of Minnesota; Helmut R. Gutmann, M.D., Biochem. RI Serv., VAH; Minneapolis, Minn. (6334)

937. Interaction of 1, 2-Fluorenoquinone-2-Acetimide With Amino Acids.

Charles C. Irving, Ph. D., Biochem., Univ. of Minnesota, Helmut R. Gutmann, M.D., Biochem. RI Serv., VAH; Minneapolis, Minn. (6335)

938. Synthesis of Acetyl Labeled 2, 3-Fluorenoquinone-2-Acetimide and Its Interaction With Model Proteins.

Helmut R. Gutmann, M.D., Biochem. RI Serv., VAH; Jerome G. Burtle, Ph. D., Research Assoc., Univ. of Minnesota; Minneapolis, Minn. (6336)

939. Synthesis of 2-Amino-1-Fluorenol-1-C^{14}

Mary Anne Morgan, M.S., Biochem., Univ. of Minnesota; Helmut R. Gutmann, M.D., Biochem. RI Serv., VAH; Minneapolis, Minn. (6337)

940. The Binding of 2-Amino-1-Fluorenol-1-C^{14} and of N-(1-Hydroxy-2-Fluorenyl-1-C^{14}) Acetamide to Rat Liver Proteins *In Vitro*.

Herbert T. Nagasawa, Ph. D., Biochem. RI Serv.; Helmut R. Gutmann, M.D., Biochem. RI Serv.; Minneapolis, Minn. (6338)

941. Oxidation of o-Aminophenols by Cytochrome c-Cytochrome Oxidase. 2-Amino-3-Fluorenol.

Herbert T. Nagasawa, Ph. D., Biochem., RI Serv.; Helmut R. Gutmann, M.D., Biochem., RI Serv., VAH; Mary Anne Morgan, M.S., Biochem., U. of Minnesota; Minneapolis, Minn. (9800)

942. The Mechanism of Protein Binding by N-(2-Fluorenyl) Acetamide.

Ulysses S. Seal, Ph. D., Biochem., U. of Minnesota; Charles C. Irving, Ph. D., Biochem., U. of Minnesota; Helmut R. Gutmann, M.D., Biochem., RI Serv., VAH; Minneapolis, Minn. (9801)

943. The Fractionation of Soluble Liver Proteins of Rats After Intraperitoneal Injection of N-(2-Fluorenyl-9-C^{14}) Acetamide.

Ulysses S. Seal, Ph. D., Biochem., U. of Minnesota; Helmut R. Gutmann, M.D., Biochem., RI Serv., VAH; Minneapolis, Minn. (9802)

944. Studies on the Carcinogenicity of Some Aminofluorenols.

Charles C. Irving, Ph. D., Biochem., U. of Minnesota; Helmut R. Gutmann, M.D., Biochem., RI Serv., VAH; Donald M. Larson, M.D., Asst. Path., Lab. Serv.; Minneapolis, Minn. (9803)

945. Comparison of Gluco-hexokinase Inhibition by Various Tumors.

Frank R. Heiber, M.D., Resident, Med. Serv., VAH, Research Fellow, Univ. of Minnesota; Paul D. Boyer, Ph. D., Prof. Phys. Chem., Univ. Minnesota; Paul S. Hagen, M.D., Ch. Hemat. Sec., VAH; Minneapolis, Minn. (9804)

946. Attempts to Induce Transformation of Transplanted Tumors in Mice.

Donald J. Ferguson, M.D., Ph. D., Ch. Surg. Serv.; Minneapolis, Minn. (9805)

947. The Effect of Hypokalemia Upon the Development of Resistance to Chemotherapeutic Agents for Cancer.

Edward W. Humphrey, M.D., Ph. D., Staff Phys., Surg. Serv.; Minneapolis, Minn. (9806)

948. Active Auto-Immunization Against Human Malignancies.

Frank Gollan, M.D., Asst. Dir. Prof. Serv. for Research; W. L. Taylor, M.D., Surg. Serv.; James B. Dalton, M.D., Surg. Serv.; Thelma Wenzel, Med. Tech. Gen.; Nashville, Tenn. (5342)

949. Cancer Antibodies in Milk.

Frank Gollan, M.D., Asst. Dir. Prof. Serv. for Research; Thelma Wenzel, Med. Tech. Gen.; Nashville, Tenn. (5346)

950. Attempts of Iso-Immunization in the Jensen Rat Sarcoma.

Frank Gollan, M.D., Asst. Dir. Prof. Serv. for Research; Thelma Wenzel, Med. Tech. Gen.; Nashville, Tenn. (5351)

951. Adaptation of Radioisotope Research Procedure Using Silver Coated AU^{-198} to Clinical Application.

P. F. Hahn, Ph. D., Dir. Cancer Res. Lab.; Nashville, Tenn. (5407)

952. Amylase Activity of Neoplasm.

Norman Ende, M.D., Ch. Clin. Lab.; Nashville, Tenn. (9959)

953. Neoplasm and Amylase Levels in Body Fluids.

Norman Ende, M.D., Ch. Clin. Lab.; Nashville, Tenn. (9960)

954. The Effect of Lamb Spleen Extract on Malignancy.
S. W. Westing, M.D., Ch. Radiol.; Newington, Conn. (6354)

955. A Clinical Study of all Patients at this Hospital with Carcinoma of the Lung who were Treated by Surgical Methods.
Howard A. Buechner, M.D., Ch. Med. Serv.; New Orleans, La. (6374)

956. A Follow-Up Study of Males in the 50–60 year Age Group with Specific Reference to the Development of Cancer of the Lung.
Charles P. Oderr, M.D., Ch. Radiol. Serv.; New Orleans, La. (6402)

957. Blood Dyscrasias and Tumors of Hemic and Lymphatic System.
DeWitt T. Baker, M.D., Ch. Allergy, Derm. Serv.; New Orleans, La. (11103)

958. Auto-Transplantation of Tumors in Selected Patients with Advanced Cancer.
Robert D. Sullivan, M.D., Ch. Oncol. Sect.; New York, N.Y. (6492)

959. Calcium Uric Acid and Glycolytic Enzymes in Cancer Chemotherapy Patients.
Robert D. Sullivan, M.D., Ch. Oncol. Sect.; Edward Miller, M.D., Cancer Chemotherapy Prog.; New York, N.Y. (6493)

960. The Study of Radiographic Visualization of Lymph Nodes by Means of Opaque Colloidal Dye.
Sidney Rubenfeld, M.D., Cons. Radiotherapy, VAH, Prof. Clin. Radiol., New York Univ. Coll. of Med.; Gustave Kaplan, M.D., Asst. Ch. Radiol. Serv., VAH; New York, N.Y. (6504)

961. Clinical Evaluation of Cancer Chemotherapeutic Compounds.
Robert D. Sullivan, M.D., Ch. Oncol. Sect.; Edward Miller, M.D., Cancer Chemotherapy; New York, N.Y. (11013)

962. The Nature of Protein Fractions from Leukemic Spleens.
Andrew Kuna, Ph. D., Biochem.; Emanuel Schmulowitz, Histopath. Tech.; Northport, N.Y. (10191)

963. Results of Our Experience With the Relationship of Single and Multiple Thyroid Nodules to Malignancy.
J. V. Smith, M.D., Ch. Surg. Serv.; J. F. Ehle, M.D., Ward Surg.; Oakland, Calif. (6648)

964. Study and Analysis of Our Experience with Carcinoma of the Colon and Rectum.
J. V. Smith, M.D., Ch. Surg. Serv.; S. H. Schonberger, M.D., Asst. Ch. Surg. Serv.; Oakland, Calif. (6649)

965. Results of Our Experience With the Relationship of Single and Multiple Thyroid Nodules to Malignancy.
John V. Smith, M.D., Ch. Surg. Serv.; Jack F. Ehle, M.D., Ward Surg.; Oakland, Calif. (10186)

966. Carcinoid of the Rectum.

W. P. Kleitsch, M.D., Surg. Serv.; Omaha, Nebr. (6728)

967. Carcinoma of the Right Half of the Colon.

W. P. Kleitsch, M.D.; W. W. Chandler, M.D., Surg. Serv.; Omaha, Nebr. (6729)

968. The Physiology of the Post-Gastrectomy Dumping Syndrome.

Mary Pat Mockler, B.S., Biochem.; William P. Kleitsch, M.D., Ch. Surg. Serv.; Fred L. Humoller, Ph. D., Prin. Scien.; Omaha, Nebr. (6730)

969. Efficacy of the Use of Radioactive Phosphorus in Treatment of Chronic Leukemias.

Richard E. Ogborn, M.D., Ch. RI Serv.; Joseph M. Holthaus, M.D., Ch. RI Serv.; Omaha, Nebr. (6776)

970. Labeling of Tumor-Seeking Antibiotics with Substituted Radioactive Elements.

Richard E. Ogborn, M.D., Ch. RI Serv.; Arthur L. Dunn, Ph. D., Asst. Ch. Scien. RI Serv.; Omaha, Nebr. (6778)

971. Studies of Metabolism of Labeled Antibiotics in Animals.

Richard E. Ogborn, M.D., Ch., RI Serv.; Arthur L. Dunn, Ph. D., Asst. Ch. Scien. RI Serv.; Omaha, Nebr. (6779)

972. Determination of Pressor Substances in Urine.

Delmar J. Mahler, Ph. D., Pharm.; Mary Pat Mockler, B.S., Biochem.; Nick Martinez, Jr., B.S., Phys. Scien. Aid; Fred L. Humoller, Ph. D., Prin. Scien.; Joseph M. Holthaus, M.D., Ch. Med. Serv.; Omaha, Nebr. (10217)

973. An Evaluation of Nitrogen Mustard as an Adjunct to X-Ray Therapy in Inoperable Carcinoma of the Lung.

Samuel M. Glasser, M.D., Ch. RI Sect.; James F. Hammarsten, M.D., Ch. Med. Serv.; Philip C. Johnson, M.D., Ch. RI Serv.; Robert L. Carpenter, M.D., Med. Resident; Oklahoma City, Okla. (6853)

974. Development of Methods for the Radioactive Destruction of the Pituitary Gland.

Philip C. Johnson, M.D., Ch. RI Serv.; Kelly M. West, M.D., Staff Phys.; E. Stanley Berger, Senior Resident; Oklahoma City, Okla. (6942)

975. Evaluation of Carzinophin in the Chemotherapy of Sarcomas.

Alexander H. Woods, M.D., Clin. Invest.; James F. Hammarsten, M.D., Ch. Med. Serv.; Oklahoma City, Okla. (9995)

976. Studies With Antisera to Enzymes of Cancer Cells.

Alexander H. Woods, M.D., Clin. Invest., VAH; Robert M. Bird, M.D., Attend. Phys., VAH; Paul Condit, M.D.. Assoc. Sect. Head, Okla. Med. Research Found.; Leonard P. Eliel, M.D., Dir., Okla. Med. Research Found.; Oklahoma City, Okla. (9996)

977. Protection Against Large Doses of Nitrogen Mustard by Bone Marrow Autografts.

William L. Hughes, M.D., Resident Phys.; H. Earl Ginn, M.D., Resident Phys.; Alexander H. Woods, M.D., Clin. Invest.; Oklahoma City, Okla. (9997)

978. Early Diagnosis of Carcinoma of Stomach.

Walter Joel, M.D., Path.; D. Kent Braden, M.D., Resident Phys.; William R. Hood, M.D., Resident Phys.; Stewart G. Wolf, M.D., Cons. Phys.; Oklahoma City, Okla. (9999)

979. Use of Meningococcus Toxin with Potentiation by Ephinephrine to Produce Regression of Tumors in Mice.

Benjamin Rothfeld, M.D., Asst. Ch. Med. Serv.; Perry Point, Md. (6957)

980. Resectability of the Various Types of Gastric Carcinoma, as Studied in Giant Sections.

Siegbert Bornstein, M.D., Ch. Path. Dept.; Philadelphia, Pa. (7121)

981. The Importance of Splenoportography in the Surgery for Hepatoma.

Francis C. Jackson, M.D., Ch. Surg. Serv.; N. A. Calvanese, M.D., Ch. Resident, Gen. Surg.; Pittsburgh (Univ. Dr.), Pa. (11085)

982. Histochemical Characterization of Mesothelioma.

Edwin R. Fisher, M.D., Act. Ch. Clin. Lab.; Harold R. Hallstrom, M.D., Asst. Ch. Path. Serv.; Pittsburgh (Univ. Dr.), Pa. (11092)

983. Tumor Cell Implantation in Operative Wounds.

Harvey W. Baker, M.D., Assist. Ch. Surg. Serv.; Portland, Oreg. (7154)

984. Intra-Arterial Nitrogen Mustard in the Therapy of Carcinoma of the Lung.

James F. Morris, M.D., Sect. Ch. Med. Chest; Brent M. Parker, M.D., Sect. Ch. Card.; J. David Bristow, M.D., Sr Resident, Leonard M. Goldberg, M.D., Sr. Resid.; Portland, Oreg. (8739)

985. Carcinoma of Lung. An Evaluation With Special Consideration of Cytologic Examination.

Leroy S. Pearce, M.D., Asst. Ch. Lab. Serv.; Richmond, Va. (7212)

986. The Benzidine Oxidase in Liver Disease.

Charles J. Galbraith, M.D., Dir., St. Louis Univ. Sect. Surg.; James F. Sullivan, M.D., Staff Phys., VAH; Kathleen T. Hart, Ph. D., Biochem., RI Serv.; St. Louis, Mo. (7689)

987. Quantitative Histochemistry of Skin and Cancer.

Falls B. Hershey, M.D., Dir., Washington Univ. Surg. Serv.; Charles Lewis, Jr., Biochem., VAH; St. Louis, Mo. (7699)

988. Mechanism of Hormone Effects on Breast and Prosthetic Cancer.

Falls B. Hershey, M.D., Dir. Washington Univ. Surg. Serv.; Charles Lewis, Jr., Biochem., VAH; Lorine Mullins, Biol.; Josephine Murphy, Biochem; Thomas Schiff, Med. Tech.; St. Louis, Mo. (7700)

989. Topographical Diagnosis of Thyroid Disease.

Robert E. Mack, M.D., Ch. Med. Serv.; St. Louis, Mo. (7722)

990. The Hormone Output of the Thyroid Gland.

Robert E. Mack, Ch. Med. Serv.; Kathleen T. Hart, Ph. D., Biochem., RI Serv.; St. Louis, Mo. (7723)

991. Effect of Storage on Enzyme Activity and Viability of Skin.

Robert C. Donaldson, M.D., Asst. Ch. Surg. Serv., VAH; John H. Payne, Wash. Univ. Med. Stud.; Falls B. Hershey, M.D., Dir., Wash. Univ. Surg. Serv.; St. Louis, Mo. (9715)

992. Effect of Filtrates of Various Fungi on Sarcoma 180 in the Mouse.

Robert C. Donaldson, M.D., Asst. Ch. Surg. Serv.; St. Louis, Mo. (9716)

993. Tests for the Presence of Antibodies to Homotransplants and Isotransplants of Mouse Tissues.

Oscar N. Rambo, Jr., M.D., Ch. Lab. Serv.; Ernest J. Eichwald, M.D., Assoc. Prof. Path., Univ. of Utah; Thomas F. Dougherty, Ph. D., Prof. and Head Dept. Anat., Univ. of Utah; Roger B. Fuson, Ph. D., Cancer Research Path. Serv.; Salt Lake City, Utah. (7302)

994. Tumor Growth Following Injections of LD100 Tumor Cell Suspensions Into Unrelated Strains of Mice.

Oscar N. Rambo, Jr., M.D., Ch. Lab. Serv., VAH; Ernest J. Eichwald, M.D., Assoc. Prof. Path., Univ. of Utah; Thomas F. Dougherty, Ph. D., Prof. and Head of the Dept. of Anat., Univ. of Utah; Roger B. Fuson, Ph. D., Bact., Lab. Serv., VAH; Salt Lake City, Utah. (7303)

995. Cross Reaction Studies of Cytotoxicity of Immune Sera to Mouse Tumor Cells.

Oscar N. Rambo, Jr., M.D., Ch. Lab. Serv., VAH; Ernest J. Eichwald, M.D., Assoc. Prof. Path., Univ. of Utah; Thomas F. Dougherty, Ph. D., Prof. and Head of Dept. of Anat., Univ. of Utah; Roger B. Fuson, Ph. D., Cancer Research Path. Serv., VAH; Salt Lake City, Utah. (7304)

996. A Feminizing Adrenocortical Carcinoma and Gynecomastia.

Stanley Wallach, M.D., Resident Phys., Med. Serv., VAH; Kristen B. Eik-Nes, Ph. D., Asst. Research Prof. Biol. Chem., Univ. of Utah; Harold Brown, M.D., Ch. Med. Serv., VAH; Charles D. West, M.D., Asst. Dir. Prof. Serv. for Research; David L. Berliner, M.D., Asst. Research Prof. Anat., Univ. of Utah; Salt Lake City, Utah. (7348)

997. Estimation of Adrenocortical Activity in Man.

Harold Brown, M.D., Ch. Med. Serv., VAH; Leo T. Samuels, Ph. D., Prof. and Head Dept. Biol. Chem., Univ. Utah; Edwin Englert, Jr., M.D., Asst. Ch. Med. Serv., VAH; Salt Lake City, Utah. (7360)

998. Secretion of Gonadal Hormones in Man.

Charles D. West, M.D., Asst. Dir. Prof. Serv. for Research; Salt Lake City, Utah. (7369)

999. Effects of Alterations of the Chemical Environment on Growth of Normal and Tumor Cells *In Vivo*.

William Knox Fitzpatrick, Jr., M.D., Ch. Surg. Serv.; Salt Lake City, Utah. (10519)

1000. The Relationship of Spherocytic Anemia to the Formation of Gallstones and Carcinoma of the Gallbladder in Mice.

Walter J. Burdette, M.D., Cons. Surg., VAH, Head Dept. of Surg., Univ. of Utah; William Knox Fitzpatrick, M.D., Ch. Surg. Serv., VAH; Salt Lake City, Utah. (10520)

1001. Glycoproteins in Metastatic Cancer.

Sanford H. Lawrence, M.D., Phys., VAH; Henry E. Weimer, Ph. D., Cons. VAH, Asst. Prof. Dept. of Infect. Diseases, Univ. California at Los Angeles; David Salkin, M.D., Dir. Prof. Serv., VAH; San Fernando, Calif. (7397)

1002. Histochemical Study of Irradiated Tumors.

Perry J. Melnick, M.D., Ch. Lab. Serv.; San Fernando, Calif. (10596)

1003. General Program of Histochemical Study of Surgically Resected Lesions.

Perry J. Melnick, M.D., Ch. Lab. Serv.; San Fernando, Calif. (10597)

1004. Histochemical Study of Breast Neoplasms.

Perry J. Melnick, M.D., Ch. Lab. Serv., VAH; Weldon K. Bullock, M.D., Assoc. Clin. Prof. of Path., Univ of. Southern California, Med. Sch.; Sanford H. Lawrence, M.D., Phys., VAH; San Fernando, Calif. (10598)

1005. Relationship of the Nuceloprotein Factor to the New Cell Culture (Puck).

Roman J. Kutsky, Ph. D., Biochem.; T. V. Feichtmeir, M.D., Ch. Clin. Path. Serv.; San Francisco, Calif. (7438)

1006. Relationship of Nucleoprotein Fraction Research to Ageing.

Roman J. Kutsky, Ph. D., Biochem.; T. V. Feichtmeir, M.D., Ch. Clin. Path. Serv.; San Francisco, Calif. (7439)

1007. Relationship of the Nucleoprotein Factor Research to Cancer.

Roman J. Kutsky, Ph. D., Biochem.; T. V. Feichtmeir, M.D., Ch. Clin. Path. Serv.; San Francisco, Calif. (7440)

1008. The Clinical Aspects of Leukemia and Hypoplastic Anemias.

Randall S. Derifield, M.D., Ch. Med. Serv.; Raymond W. Dowidat, M.D., Ward Med. Officer; Saginaw, Mich. (7284)

1009. Relationship Between the Rate of Secretion and the Chemical Composition of Metabolic Fecal Fat and the Type of Diet Consumed by Sprue Patients.

Conrado F. Asenjo, Ph. D., Ch. Dept. Biochem. & Nutrition, Univ. of Puerto Rico, Sch. of Med.; Rafael Rodriguez-Molina, M.D., Asst. Dir. Prof. Serv. for Research, VAH; Marta Cancio, Ph. D., Super. Biochem.; San Juan, P.R. (7473)

1010. A Study of Serum Acid Phosphatase With Special Reference to Use of L-tartrate and Copper to Determine Prostatic Portion of Acid Phosphatase.

Lester D. Ellerbrook, Ph. D., Attend. VAH, and Assoc. Prof. in Path., Univ. of Washington; John M. Kennelly, Jr., M.D., Attend. VAH, and Instr. Urol. Div., Univ. of Washington; Kenneth P. Knudtson, M.D., Asst. Ch. Lab. Serv., VAH; Motoshi Yamasaki, B.S., Biochem.; Seattle, Wash. (7595)

1011. Human Pituitary Thyrotropic Hormone Content.

John L. Bakke, M.D., Asst. DPS for Research and Asst. Ch. Med. Serv.; Nancy L. Lawrence, M.S., Biochem.; Seattle, Wash. (7599)

1012. Irradiation and Dye Staining in Animal Neoplasia.

David V. Brown, M.D., Ch. Lab. Serv.; Seattle, Wash. (7638)

1013. Long Range Studies of the Biologic Behavior of the Human Uterine Cervix III Squamous Metaplasia.

Russell R. deAlvarez, M.D., Cons. VAH, Prof. & Exec. Officer in Obstet. and Gyn., Univ. of Washington; David V. Brown, M.D., Ch. Lab. Serv., VAH; David C. Figge, M.D., Asst. Prof. in Obstet. and Gyn., Univ. of Washington; Seattle, Wash. (7639)

1014. Irradiation and Dye Staining in Animal Neoplasia—Observations of Acute Effects.

David V. Brown, M.D., Ch. Lab. Serv.; Seattle, Wash. (9227)

1015. Long Range Studies of the Biologic Behavior of the Human Uterine Cervix—Atypical Epithelial Hyperplasia.

Russell R. de Alvarez, M.D., Cons. VAH, Prof. and Exec. Officer Obstst. and Gynecol., Univ. of Washington; David V. Brown, M.D., Ch. Lab. Serv., VAH; David C. Figge, M.D., Asst. Prof. Obstet. and Gynecol., Univ. of Washington; Seattle, Wash. (9247)

1016. Pathways of Incorporation of Purine Analogues into Nucleic Acids.

Charles N. Remy, Ph. D., Prin. Scien. for Med. Research; Syracuse, N.Y. (7813)

1017. Metabolism of the Growth Inhibitor, 2, 6-Diaminopurine.

Charles N. Remy, Ph. D., Prin. Scien. Med. Research; Syracuse, N.Y. (7818)

1018. Surface Inactivation of Viruses.

William R. Ruegamer, Ph. D., Prin. Scien. RI Serv.; Syracuse, N.Y. (7821)

1019. Effect of Intracarotid Thio T.E.P.A. in Metastatic and Primary Malignant Brain Tumor.

Frederick W. L. Kerr, M.D., Act. Ch. Neurosurg. Serv.; James MacD Watson, M.D., Ch. Neur. Sec.; Robert B. King, M.D., Cons. in Neurosurg., VAH, Prof. Surg., State Univ. of New York; Anthony T. Ladd, M.D., Staff Phys. Med. Serv.; Syracuse, N.Y. (8926)

1020. Study of Abnormal Globulins in Disease.

Blair V. Jager, M.D., Ch. Med. Serv.; Syracuse, N.Y. (8936)

1021. Study of Tumor Cells in Circulating Blood.

Stuart M. Anderson, M.D., Ward Surg.; Togus, Maine. (7849)

1022. The Urinary Excretion of Taurine.

Fennell P. Turner, M.D., Ch. Surg. Serv.; Togus, Maine. (10534)

1023. The Role of Alpha Lipoic Acid and Coenzyme A in the Krebs Cycle.

Victor C. Brum, Super. Biochem.; Togus, Maine. (10546)

1024. Study and Comparison of Enzyme Lavage Methods in Cytologic Diagnosis of Cancer.

Robert W. Hamill, M.D., Cons. Intern. Med.; Thomas R. Hood, M.D., Ch. GI Sec.; Keith S. Bowman, Super. Chem. (Biochem.); Wadsworth, Kans. (8033)

1025. Evaluation of Hypercalcemia of Malignancy.

Thomas T. Amatruda, Jr., M.D., Ch. Med. Serv.; West Haven, Conn. (8080)

1026. Evaluation of Esophageal-Jejunal Anastomosis.

Woodrow W. Lindenmuth, M.D., Ch. Surg. Serv.; George Gowen, M.D., Staff Phys., Surg. Serv.; West Haven, Conn. (8092)

1027. Fluorescence of Exfoliated Tumor Cells in Sputum Following Tetracycline Therapy in Lung Cancer.

Raymond Yesner, M.D., Ch. Lab. Serv.; West Haven, Conn. (8096)

1028. Turnover of Body Constituents.

Donald L. Buchanan, M.D., Ch. RI Serv.; West Haven, Conn. (8137)

1029. Studies on the Possibility of a Unique Cancer Cell Antigen.

Nicholas M. Alexander, Ph. D., Biochem.; West Haven, Conn. (8139)

1030. Studies on a Catalase Inhibitor Found in Cancer Tissue.

Nicholas M. Alexander, Ph. D., Prin. Invest. RI Serv.; West Haven, Conn. (8145)

1031. Corticosteroid Secretion and Synthesis by the Human Adrenal Gland *In Vitro*.

Patrick J. Mulrow, M.D., Clin. Invest. VAH; George Cohn, Instr. Med., Yale Univ.; West Haven, Conn. (9857)

1032. Results of Surgery for Carcinoma of the Oro-Pharynx.

K. Merrill, M.D., Surg. Cons.; C. S. Hoar, Jr., M.D., Cons. Surg. Serv. VAH, Instr. Surg. Harvard Med. Sch.; West Roxbury, Mass. (8203)

1033. Lactic Dehydrogenose Activity of Serous Effusions.

Walter G. Frey, III, M.D., Act. Asst. Ch. Med. Serv.; White River Junction, Vt. (8804)

1034. Hodgkin's Disease.

Bertram H. Dessel, M.D., Ch. Hemat. Sec.; Wood, Wisc. (8262)

1035. An Evaluation of the Chemical Analysis of Postmortem Body Fluids.

Edwin L. Bemis, M.D., Ch. Anat. Path. Sect.; Wood, Wisc. (8290)

1036. The Evaluation of a Long Acting Estrogen (DSTMA) in Treatment of Carcinoma of the Prostate.

Donald A. Roth, M.D., Ph. D., Ch. Metab. & Endocrin. Sec., Med. Serv.; Arthur J. Jacobsen, M.D., Resident Urol., Surg. Serv.; Jerre L. Noland, Ph. D., Ch. Biochem. Lab., Research Serv.; Wood, Wisc. (9745)

1037. Surgical Treatment of Recurring Nodules in Hodgkin's Disease.

Bertram H. Dessel, M.D., Ch. Hemat. Sect., Med. Serv.; Wood, Wisc. (9746)

3. Allergic, Endocrine, Metabolic, and Nutritional Disorders

1038. Investigation of the Metabolism of D-Xylose.

J. J. Dapolito, Jr., M.D., Research Fellow Endocrin. and Metab., Albany Med. Coll.; J. J. Cincotti, M.D., Ch. Gen. Surg., VAH; J. A. Nelson, M.D., Ch. Surg. Serv., VAH; T. F. Frawley, M.D., Head, Endocrin. and Metab., Albany Med. Coll., Cons. VAH; Albany, N.Y. (8630)

1039. Effect of Cerebral Vascular Disease on Volume, Tonicity, and Consumption of Extra-Cellular Fluid.

John J. Garrett, M.D., Asst. Ch. Med. Serv.; Albany, N.Y. (8631)

1040. Evaluation of Pancreatic Function Using Secretin Stimulation.

R. D. H. Flaherty, M.D., Ch. GI. Sect.; Albany, N.Y. (9000)

1041. Study of Research and Clinical Use of Iodine–131 Diodrast Renogram.

John J. Garrett, M.D., Asst. Ch. Med. Serv.; Charles A. Hall, M.D., Ch. Hemat. Sect.; Albany, N.Y. (9275)

1042. Oral Use of the Chelating Agent Tri-sodium Ethylenediamine Tetraacetic Acid (Sherman Lab) in the Treatment of Metastatic Calcinosis.

Sherman A. Gates, M.D., Ch. Metab. Sect., Med. Serv.; Carmen L. Rosano, M.S., Biochem., Gen. Med. Research Lab.; Albany, N.Y. (9276)

1043. Effect of Oral Tri-sodium Ethylenediamine Tetraacetic Acid (EDTA) on the Absorption of Radioactive Vitamin B_{12}.

Sherman A. Gates, M.D., Ch. Metab. Sect.; Charles A. Hall, M.D., Ch. RI Lab.; Albany, N.Y. (9277)

1044. Polarographic Determination of Adrenalin Substances in Urine.

R. D. Strickland, Ph. D., Research Biochem.; Albuquerque, N. Mex. (2052)

1045. The Assay of Antidiuretic Hormone Levels in Blood by Use of the American Toad.

W. A. Childs, M.D., Ch. Surg. Serv., VAH; W. J. Eversole, Ph. D., Prof. Phys., Univ. of New Mexico; E. Broderick, M.D., Asst. Ch. Surg. Serv., VAH; Albuquerque, N. Mex. (2063)

1046. Clinical Determination of Vitamin B–12 in Blood Serum.

R. D. Strickland, Ph. D., Research Biochem.; Albuquerque, N. Mex. (2074)

1047. A Study to Determine the Significance of an Hour's Rest Preceding BMR Determinations.

W. S. Taylor, M.D., Ch. Med. Serv.; R. Harrison, Card. Tech.; Albuquerque, N. Mex. (9285)

1048. Tissue Culture Techniques in the Study of Allergic Conditions. I. The Action of Histamine on Ciliated Cells From Nasal Mucosa.

Theophilus S. Painter, M.D., Ch. Allergy Sect.; Joan Wilhelm, M.S., Med. Biol.; Ann Arbor, Mich. (2138)

1049. Tissue Culture Techniques in the Study of Allergic Conditions. II. The Action of Specific Antigens on Ciliated Cells From Allergic Nasal Mucosa.

Theophilus S. Painter, M.D., Ch. Allergy Sect.; Joan Wilhelm, M.S., Med. Biol.; Ann Arbor, Mich. (2139)

1050. Study of Histopathology of Nasal Mucosa During the Ragweed Season.

Theophilus S. Painter, M.D., Ch. Allergy Sect.; Joan Wilhelm, M.S., Med. Biol.; Ann Arbor, Mich. (2149)

1051. The Study of Outgrowth of Cells in Tissue Culture From Human Nasal Tissue in Allergic Patients and the Effect of the Specific Antigen on Cellular Morphology.

Theophilus S. Painter, M.D., Ch. Allergy Sect.; Joan Wilhelm, M.S., Med. Biol.; Ann Arbor, Mich. (2150)

1052. The Experimental Production of Amyloid and the Uptake of Radioactive Congo Red Dye.

Donald R. Korst, M.D., Act. Ch. RI Serv.; Hans H. Gadebusch, Coord. Research Research Biochem.; Charles T. Knorpp, Asst. Ch. (Scien.) RI Serv.; Ann Arbor, Mich. (2196)

1053. The Plasma Clearance of Radioactive Congo Red Dye, and the Effects of Bromsulphalein.

Donald R. Korst, M.D., Act. Ch. RI Serv.; Charles T. Knorpp, Asst. Ch. (Scien.) RI Serv.; Mary H. Rennie, RI Scien. (Radiol. Safety); Ann Arbor, Mich. (2210)

1054. The Production and Animal Tissue Distribution of Radioactive Congo Red Dye.

Donald R. Korst, M.D., Act. Ch. RI Serv.; Charles T. Knorpp, Asst. Ch. (Scien.) RI Serv.; Mary H. Rennie, RI Scien. (Radiol. Safety); Ann Arbor, Mich. (2212)

1055. The Value of TSH Stimulation or Tri-iodothyronine Depression in Borderline Radioiodine Uptake Studies.

Donald R. Korst, M.D., Act. Ch. RI Serv.; Charles T. Knorpp, Asst. Ch. (Scien.) RI Serv.; Mary H. Rennie, RI Scien. (Radiol. Safety); Ann Arbor, Mich. (2220).

1056. Prophylaxis of Diabetic Acidosis in Veterans.

James C. Crutcher, M.D., Ch. Med. Serv.; Atlanta, Ga. (2231)

1057. Serum Transaminase Determinations in Diseases With Destruction of Muscle.

John A. Ward, M.D., Clin. Invest.; Emmalen M. Smith, Med. Tech.; Atlanta, Ga. (2243)

1058. Evaluation of Methods of Treatment of Thyrotoxicosis.

John A. Ward, M.D., Clin. Invest.; James C. Coberly, M.D., Ch. RI Serv.; Barabara M. Covey, Biochem., RI Service; Atlanta, Ga. (2277)

1059. Endocrine Aspects of Aging.

John A. Ward, M.D., Clin. Invest.; Mary E. Collins, Biochem; Atlanta, Ga. (2288)

1060. Metabolism of the Lymphatic System with Particular Reference to the Nephrotic Syndrome.

Mary Z. Schumpert, Bioch., Med. Research Lab.; Atlanta, Ga. (3052)

1061. Study of Blood Lipids and Electrophoretic Patterns in Patients Exhibiting Abnormal Lipids.

Mary Z. Schumpert, Biochem., Med. Research Lab.; James C. Crutcher, M.D., Ch. Med. Serv.; Atlanta, Ga. (10308)

1062. Determinations of Serum Calcium and Phosphorous Levels in Diagnosis of Hyperparathyroidism.

C. Martin Rhode, M.D., Ch. Surg. Serv.; Elaine D. Gates, Biochem. Lab. Serv.; William D. Jennings, Jr., M.D., Asst. Ch. Surg. Serv.; Augusta, Ga. (2301)

1063. Study of Geriatric and Mental Patients from a Metabolic Standpoint.

F. G. Stephens, M.D., Ch. Lab. Serv.; Elaine D. Gates, Biochem. Lab. Serv.; Augusta, Ga. (2309)

1064. Clinical Trail of DECADRON on Collagen Diseases, Granulomatous Conditions and Various Manifestations of Allergy.

V. P. Sydenetricker, M.D., Asst. Ch. Med. Serv.; Augusta, Ga. (8533)

1065. Clinical Trial of Lilly's Compound 26169 in Diabetes.

V. P. Sydenstricker, M.D., Asst. Ch. Med. Serv.; Augusta, Ga. (8534)

1066. Clinical Trail of SU 6518 (Ciba).

Mary E. Morgan, M.D., Phys. Med. Serv.; Augusta, Ga. (9209)

1067. Vitamin B_{12} Content in Normal and Pathological Human Tissues.

Jeng M. Hsu, Ph. D., Research Biochem., Lab. Serv., VAH; Bacon F. Chow, Ph. D., Assoc. Prof., Johns Hopkins Sch. Hygiene and Public Health; Baltimore, Md. (9299)

1068. Some Factors Affecting the Plasma and Adrenal Cholesterol in Rats.

Jeng M. Hsu, Ph. D., Research Biochem., Lab. Serv., VAH; Bacon F. Chow, Ph. D., Assoc. Prof. Johns Hopkins Sch. Hygiene and Public Health; Baltimore, Md. (9300)

1069. Comparison of free INH content in Blood, Liver and Urine of Rats Receiving INH and Isoniazone Calcium Pyruvate (VN).

Jeng M. Hsu, Ph. D., Research Biochem., Lab. Serv.; Patrick B. Storey, M.D., Dir. Prof. Serv., VAH; Bacon F. Chow, Ph. D., Assoc. Prof., Johns Hopkins Sch. Hygiene and Public Health; Baltimore, Md. (9301)

1070. Effect of Isoniazid and Isoniazone Calcium Pyruvate on Vitamin B_6 Distribution in Rats.

Jeng M. Hsu, Ph. D., Research Biochem., Lab. Serv.; Patrick B. Storey, M.D., Dir. Prof. Serv., VAH; Bacon F. Chow, Ph. D., Assoc. Prof., Johns Hopkins Sch. Hygiene and Public Health; Baltimore, Md. (9302)

1071. Some Biochemical Studies on the Effect of Vitamin B_6 on Tuberculous Patients Receiving Isoniazid.

Jeng M. Hsu, Ph. D., Research Biochem., Lab. Serv.; Patrick B. Storey, M.D., Dir. Prof. Serv.; Robert C. Duvall, M.D., Ch. Med. Serv.; Baltimore, Md. (9303)

1072. Arteriosclerosis Research From A Metabolic Point of View.

Chester Solez, M.D., Ward Phys.; Bath, N.Y. (2406)

1073. Study of Enzyme Evaluations on the Geriatric Man.

Hermina S. Tannenbaum, Biochem.; Bath, N.Y. (2408)

1074. Protein Fractionation in Severe Diabetics and Kimmelstiel-Wilson Disease.

William A. Jarrett, M.D., Cons. Path.; Harry Werner, M.D., Urol.; Hermina S. Tannenbaum, Biochem.; Bath, N.Y. (2409)

1075. Proposed Research Project Study of Transaminase Levels in Healthy Individuals Killed in Accidents.

Dr. William A. Jarrett, Ch. Path.; Hermina Tannenbaum, Biochem., VAH; Dr. J. B. Poore, County Path.; Dr. Bernard McClanahan, County Path.; Bath, N.Y. (2410)

1076. Estimation of Amino Acids and Ammonia in Serum and Urine.

William A. Jarrett, M.D., Cons.; Harry B. Werner, M.D., Urol.; Bath, N.Y. (8638)

1077. Effects of Vitamin B_{12} Deprivation on Enzyme-Coenzyme Systems.

Robert L. Davis, Sc. D., Biochem., Gen. Research Lab., VAC; Carol Chang, Ph. D., Research Assoc., Johns Hopkins Univ.; Alfred H. Lawton, M.D., Dir. Research Lab., VAC; Bay Pines, Fla. (2464)

1078. Some Metabolic Aspects of Vitamin B_{12} in Disease.

Robert L. Davis, Sc. D., Biochem., Research Lab., VAC; Bacon F. Chow, Ph. D., Assoc. Prof., Johns Hopkins Sch. of Hygiene and Pub. Health; Alfred H. Lawton, M.D., Ph. D., Ch. Research Lab., VAC; Bay Pines, Fla. (2465)

1079. Studies on the Quantitation and Metabolism of C^{14}INH.

Robert L. Davis, Sc. D., Biochem., Research Lab., VAC; Bay Pines, Fla.; Jeng M. Hsu, Ph. D., Research Assoc., Johns Hopkins Univ.; Patrick B. Storey, M.D., Dir. Prof. Serv., VAH, Baltimore, Md.; Alfred H. Lawton, M.D., Ph. D., Ch. Research Lab., VAC; Bay Pines, Fla. (2466)

1080. Study of Certain Enzyme Systems in Disease Employing Ultra Microanalytical Techniques.

Robert L. Davis, Sc. D., Biochem., Research Lab.; Alfred H. Lawton, M.D., Ph. D., Dir. Research Lab.; Bay Pines, Fla. (2467)

1081. Trace Elements in Aging.

Robert L. Davis, Sc. D., Biochem., Research Lab.; Alfred H. Lawton, M.D., Ph. D., Dir. Research Lab.; Bay Pines, Fla. (2468)

1082. Comparative Studies of Serial Assays of Serum Vitamin B_{12} Content, Binding Capacity, Mucoprotein, Iron Content and Transaminases in Early Detection of Hepatocellular Damage.

Robert L. Davis, Sc. D., Biochem., Research Lab.; Alfred H. Lawton, M.D., Ph. D., Ch. Research Lab., VAC; Bay Pines, Fla. (9317)

1083. A Study of the Response of the Thyroid Gland to Stress in Man: Thyroid Adrenal Relationships.

S. Richardson Hill, M.D., Act. Ch. Metab. Sec.; Willard H. Starnes, M.S., Ch. Biochem. Metab. Lab.; J. A. Pittman, Jr., M.D., Ch. RI Unit; Birmingham, Ala. (2560)

1084. Studies on the Serum and Spinal Fluid Protein Patterns in Patients with Diabetes Mellitus and Its Degenerative Complications.

S. Richardson Hill, M.D., Act. Ch., Metab. Sec.; B. R. Boshell, Clin. Invest.; Birmingham, Ala. (2561)

1085. Studies on the Serum and Spinal Fluid Protein in Patients with Rheumatoid Arthritis and Rheumatoid Spondylitis.

S. Richardson Hill, M.D., Act. Ch. Metabolic Sec., VAH; Howard Holley, M.D., Cons. Arth. and Assoc. Prof. of Med., Med. Col. of Alabama; Willard R. Starnes, M.S., Ch. Biochem. Metab. Lab., VAH; William Hammack, M.D., Inst. Med., Med. Coll. of Alabama; Birmingham, Ala. (2562)

1086. Studies on Glycoprotein Patterns in Patients with Diabetes Mellitus.

S. R. Hill, Jr., M.D., Act. Ch. Metab. Sec.; B.R. Boshell, M.D., Clin. Invest.; Birmingham, Ala. (2565)

1087. Studies on Adrenal Cortical Hyperfunction and the Concept of Balanced Adrenal Cortical Hyper-Secretion.

S. Richardson Hill, M.D., Act. Ch. Metab. Sec.; Willard R. Starnes, M.S., Ch. Biochem. Research Lab.; James A. Pittman, Jr., M.D., Ch. RI Unit; Birmingham, Ala. (2566)

1088. Studies of the Metabolic Effects of the Acetic and Propionic Acid Analogs of Thyroxine and Triiodothyronine.

S. Richardson Hill, M.D., Act. Ch. Metab. Sec., VAH; Sam Barker, M.D., Dept. Med., Med. Coll. of Alabama; Willard R. Starnes, M.S., Ch. Biochem. Metab. Research Lab., VAH; Jean H. MacNeil, M.D., Fellow in Metab. Research, Med. Coll. of Alabama; Birmingham, Ala. (2567)

1089. Studies on the Effects of Variation of the Blood Glutathione Level on Carbohydrate Metabolism.

S. R. Hill, Jr., M.D., Ch. Metab. Sec.; James A. Pittman, Ch. RI Unit; W. R. Starnes, Ch. Biochem.; B. R. Boshell, M.D., Clin. Invest.; Birmingham, Ala. (2568)

1090. Studies on the Response of the Adrenal Cortex and Interstitial Cells of the Testes to Chorionic Gonadotropin.

S. Richardson Hill, Jr., M.D., Act. Ch. Metab. Sec.; Willard R. Starnes, M.S., Ch. Biochem. Metab. Research Lab.; James A. Pittman, Jr., M.D., Ch. RI Unit; Birmingham, Ala. (2569)

1091. Studies on the Secretory Activity of Tumors of the Adrenal Cortex.

S. Richardson Hill, M.D., Act. Ch. Metab. Sec.; Birmingham, Ala. (2570)

1092. Studies on the Secretory Activity of Tumors of the Adrenal Medulla.

S. Richardson Hill, M.D., Act. Ch. Metab. Sec.; Birmingham, Ala. (2571)

1093. Studies on the Secretory Activity of Tumors of the Testes.

S. Richardson Hill, Jr., M.D., Act. Ch. Metab. Sec.; Birmingham, Ala. (2752)

1094. Studies on the Secretory Activity of Tumors of the Ovary.

S. Richardson Hill, Jr., M.D., Act. Ch. Metab. Sec.; Birmingham, Ala. (2573)

1095. A Study of the Response of the Adrenal Cortex to Salicylates.

S. Richardson Hill, M.D., Act. Ch. Metab. Sec.; Birmingham, Ala. (2574)

1096. Studies on the Interrelationships between Adrenal Cortical and Adrenal Medullary Secretory Activity.

S. Richardson Hill, M.D., Act. Ch. Metab. Sec.; J. A. Pittman, Jr., M.D., Ch. RI Unit; Willard R. Starnes, Biochem. Gen. Med. Research Lab.; Birmingham, Ala. (2575)

1097. Studies on Adrenal Cortical Suppression by Amphenone in Patients with Secondary Hyperaldosteronism.

S. Richardson Hill, M.D., Act. Ch. Metab. Sec.; Birmingham, Ala. (2576)

1098. Studies on the Peripheral Inhibition of Thyroid Hormone Activity.

S. Richardson Hill, Jr., M.D., Act. Ch. Metab. Sec.; Birmingham, Ala. (2577)

1099. Studies on Oral Hypoglycemic Agents.

S. Richardson Hill, Jr., M.D., Act. Ch. Metab. Sec.; B. R. Boshell, M.D., Clin. Invest.; Birmingham, Ala. (2579)

1100. A Study of The Response of Serum Lipid Patterns in Patients with Familial Hypercholesteremia to Various Cholesterol Lowering Drugs.

S. Richardson Hill, M.D., Act. Ch. Metab. Sec.; Birmingham, Ala. (2580)

1101. A Study on the Location of the Aldosterone Volume Receptor Center.

S. Richardson Hill, Jr., M.D., Act. Ch. Metab. Sec.; Birmingham, Ala. (2581)

1102. A Study of the Effect of Mercurial Diuretics on Iodide Excretion.

S. Richardson Hill, Jr., M.D., Act. Ch. Metab. Sect.; Birmingham, Ala. (2582)

1103. Studies on Methods of Biochemical Assay of Estrone, Estrial and Estradial.

S. Richardson Hill, Jr., M.D., Act. Ch. Metab. Sect.; Birmingham, Ala. (2583)

1104. Procedures for Determining Aldosterone Production.

S. R. Hill, Jr., M.D., Ch. Metab. Sect.; W. R. Starnes, Ch. Biochem., Med. Research Lab.; J. A. Pittman, Jr., M.D., Ch. RI Unit; Birmingham, Ala. (2585)

1105. Studies on the Chromatographic Identification of the Metabolic Endo-products of Adrenal Cortical Secretion in Hypo- and Hyperadrenocorticism and Hyper- and Hypothyroidism.

S. Richardson Hill, Jr., M.D., Ch. Metab. Sect.; Willard R. Starnes, Ch. Biochem., Med. Research Lab.; J. A. Pittman, Ch. RI Unit; Birmingham, Ala. (2587)

1106. Studies on the Functional Relationship Between the Thyroid Gland, Adrenal Cortex and Pancreatic Islets in Man.

S. Richardson Hill, Jr., M.D., Ch. Metab. Sec.; J. A. Pittman, Jr., M.D., Ch. RI Unit; Willard R. Starnes, Ch. Biochem.; Birmingham, Ala. (2588)

1107. Effect of Mercurial Diuretics, Chlorthiazide and Acetazolamide on Renal and Thyroidal Clearance of I^{131} and Thyroidal 24-Hour I^{131} Uptake.

James A. Pittman, Jr., M.D., Ch. RI Serv., VAH; John O. Tingley, Junior Med. Student, Med. Coll. of Alabama; Don Hamner, Phys. Science Aid (Gen.); S. Richardson Hill, M.D., Ch. Endocrin. Div.; Birmingham, Ala. (2639)

1108. The Study of Magnesium Excretion by Stop-Flow Analysis Utilizing Magnesium-28.

Herschel V. Murdaugh, M.D., Asst. Ch. Med. Serv., VAH; Roscoe R. Robinson, M.D., USAFB, Lackland, Tex.; Birmingham, Ala. (2640)

1109. The Study of Urea Excretion by Stop-Flow Analysis.

Herschel V. Murdaugh, Jr., M.D., Asst. Ch. Med. Serv., VAH; Roscoe R. Robinson, M.D., USAFB, Lackland, Tex.; Robert E. Calloway, Biochem., VAH, Birmingham, Ala. (2641)

1110. A Study on the Methods of Quantitating Plasma and Urine Aldosterone, Cortisone, Hydro-Cortisone and other Adrenal Cortical Secretory Substances by Simultaneous Labeling with Tritium and C^{14} Followed by Extraction Chromatography and Differential Spectrometric Liquid Scintillation Counting.

S. Richardson Hill, M.D., Ch. Metab. Sect.; James A. Pittman, M.D., Asst. Ch. Metab. Sect.; William E. Martindale, Biochem.; Birmingham, Ala. (2642)

1111. A Study of the Permeability of Synovial Membranes in Humans Using Radioactive Iodinated Serum Albumin.

William E. Martindale, Biochem., VAH; William L. Hawley, M.D., Cons., VAH, Assoc. Prof. of Clin. Med., Med. Coll. of Ala.; Howard L. Holley, M.D., Cons., VAH, Assoc. Prof. of Med., Med. Coll. of Alabama; Birmingham, Ala. (2645)

1112. Blood Volumes in Rheumatoid Arthritis.

William E. Martindale, Biochem.; Don Hamner, Phys. Science Aid, VAH; Howard L. Holley, M.D., Cons. VAH, Assoc. Prof. Med., Med. Coll. of Alabama; Birmingham, Ala. (2647)

1113. The Synthesis of Analogues of Thyroxine and Triiodothyronine.

James W. Woods, Biochem., VAH; Thomas D. Taylor, NIH Research Asst.; Birmingham, Ala. (2648)

1114. The Mechanism of Fatty Acid Metabolism: The Conversion of Saturated Fatty Acids to *cis*-2,3-Alkenoic Acid.

James W. Woods, Biochem.; Birmingham, Ala. (2649)

1115. Study of Bilateral Spontaneous Chylopneumothorax.

R. A. Dillard, M.D., Ch. Surg. Serv.; Birmingham, Ala. (3564)

1116. A Study of the Effect of Various Hormones on Metabolic Pathway of Glucose in Both Liver and Fat Tissue

Buris R. Boschell, M.D., Clin. Invest. Metab.; Birmingham, Ala. (9623)

1117. A Study of the Nocturnal Fluctuation of Blood Sugar in Mild Diabetics, Both On and Off Hypoglycemic Agents and Insulin During the Sleeping State.

Buris R. Boshell, M.D., Clin. Invest. Metab.; Birmingham, Ala. (9624)

1118. Endocrine Interrelationships of Brittle Diabetes. Studies Will be Made Particularly Regarding Blood Corticoids and Urinary Catechols.

Buris R. Boshell, M.D., Clin. Invest. Metab.; Birmingham, Ala. (9625)

1119. Evaluation of New Oral Hypoglycemic Agents *In Vivo* and *In Vitro*.

Buris R. Boshell, M.D., Clin. Invest. Metab.; Birmingham, Ala. (9626)

1120. The Activities of Hexose Monophosphate Shunt in Obese Hyperglycemic Mice.

Buris R. Boshell, M.D., Clin. Invest. Metab.; Birmingham, Ala. (9627)

1121. The Activities of Hexose Monophosphate Shunt in Obese Yellow Mice.

Buris R. Boshell, M.D., Clin. Invest. Metab.; Birmingham, Ala. (9628)

1122. A Study of Pyelonephritis in Pregnancy, Utilizing the Rat as an Experimental Animal, and Subjecting the Animal to Both Hematogenous and Bladder Infections with E. Coli.

Buris R. Boshell, M.D., Clin. Invest. Metab.; Birmingham, Ala. (9629)

1123. A Study of Pyelonephritis in Diabetic Rats.

Buris R. Boshell, M.D., Clin. Invest. Metab.; Birmingham, Ala. (9630)

1124. A Study of the Effect of Hyperglycemia in Predisposing an Animal to Pyelonephritis, Utilizing a Genetically Hyperglycemic Mouse as Experimental Animal.

Buris R. Boshell, M.D., Clin. Invest. Metab.; Birmingham, Ala. (9631)

1125. A Study of the Effect of Glycosuria in the Development of Pyelonephritis, Utilizing Floridzin in Rats.

Buris R. Boshell, M.D., Clin. Invest. Metab.; Birmingham, Ala. (9632)

1126. A Study of the Effect of Magnesium Depletion on the Development of Pyelonephritis in the Rat.

Buris R. Boshell, M.D., Clin. Invest. Metab.; Birmingham, Ala. (9633)

1127. A Study of the Effect of Potassium Depletion on the Development of Pyelonephritis in the Rat.

Buris R. Boshell, M.D., Clin. Invest. Metab.; Birmingham, Ala. (9634)

1128. A Study of the Effect of Ketosis on the Development of Pyelonephritis in the Rat.

Buris R. Boshell, M.D., Clin. Invest. Metab.; Birmingham, Ala. (9635)

1129. A Study of Pyelonephritis in the Spontaneously Diabetic Hamster.

Buris R. Boshell, M.D., Clin. Invest. Metab.; Birmingham, Ala. (9636)

1130. Antimetabolic Effect of 3, 3′, 5′-DL-Triiodothyronine.

James A. Pittman, Jr., M.D., Ch. RI Serv.; John O. Tingley, Med. Student; Robert L. Hayes, Med. Student; John F. Nickerson, Med. Student; S. Richardson Hill, M.D., Ch. Endocrin. Div.; Birmingham, Ala. (9639)

1131. Effect of 3, 3′, 5′-dl-Triiodothyroproprionic Acid on Metabolic Rate, Serum Cholesterol in Man, Thyroxine Degradation Rate, and Thyroid Secretion Rate.

James A. Pittman, Jr., M.D., Ch. RI Serv., VAH; T. Albert Farmer, M.D., Research Fellow Endocrin. and Metab., Med. Coll. of Alabama; S. Richardson Hill, M.D., Ch. Endocrin. Div., VAH; Birmingham, Ala. (9640)

1132. Excretion of an Aldosterone-Like Substance in the Urine of an Addisonian Patient.

James A. Pittman, Jr., M.D., Ch. RI Serv.; Willard R. Starnes, Biochem.; William E. Martindale, Biochem.; S. Richardson Hill, M.D., Ch. Endocrin. Div.; Birmingham, Ala. (9641)

1133. Effect of Spirolactone on Urinary Aldosterone Excretion, Intravascular Volume and Extracellular Fluid Volume in Normals, Hypophysectomized Subjects, and Patients With Edematous States.

James A. Pittman, Jr., M.D., Ch. RI Serv.; William E. Martindale, Biochem.; Bernard H. Williams, Phys. Science Aid (Chem.); S. Richardson Hill, M.D., Ch. Endocrin. Div.; Birmingham, Ala. (9642)

1134. A Comparison of the Double Isotope Derivative Assay and the Genest Chemical Method for the Determination of Urinary Aldosterone.

James A. Pittman, Jr., M.D., Ch. RI Serv.; S. Richardson Hill, M.D., Ch. Endocrin. Div.; Willard R. Starnes, Biochem.; Bernard H. Williams, Phys. Science Aid (Chem.); Birmingham, Ala. (9643)

1135. Evaluation of Routine Methods, Based on Porter-Silver Color Reaction, for the Estimation of Urinary 17-Hydroxycorticosteroids.

Ludwig Kornel, M.D., Ph. D., VAH, Research Fellow in Metabolism, Med. Coll. of Ala.; Birmingham, Ala. (9644)

1136. The Adaptation of the Spinco Analytrol for the Measurement of Steroids Isolated by Paper Chromatography.

Willard R. Starnes, M.S., Ch. Biochem., Metab. Research Lab.; Birmingham, Ala. (9645)

1137. The Response of Urinary Aldosterone Levels to ACTH and Gonadatropin.

S. R. Hill, Jr., M.D., Act. Ch. Metab. Sec.; J. A. Pittman, Jr., M.D., Ch. RI Unit; Willard R. Starnes, M.S., Ch. Biochem.; Birmingham, Ala. (9646)

1138. The Adaptation of the Thymol-Sulfuric Acid Reaction for the Determination of the Total Protein Bound in Cerebrospinal Fluids.

Willard R. Starnes, M.S., Ch. Biochem., Metab. Research Lab.; Birmingham, Ala. (9647)

1139. The Glycoprotein Content of Purified Preparations of the So-Called "Rheumatoid Factor".

Willard R. Starnes, M.S., Ch. Biochem., Metab. Research Lab.; Birmingham, Ala. (9648)

1140. The Isolation and Identification of the "Rheumatoid Factor" From Biological Fluids Other Than Serum.

Willard R. Starnes, M.S., Ch. Biochem., Metab. Research Lab.; Birmingham, Ala. (9649)

1141. The Developments of Chromatographic Systems That Will Allow One To Separate the 11-Oxy From the Deoxy Ketosteroids.

Willard R. Starnes, M.S., Ch. Biochem., Metab. Research Lab.; Birmingham, Ala. (9650)

1142. Studies of Specific Enzyme Inhibitors of the Adrenal Cortex, Including SU-4885, a 11-Beta Hydroxylase Enzyme Inhibitor.

S. R. Hill, Jr., M.D., Ch. Metab. Sect.; J. A. Pittman, Jr., M.D., Ch. RI Unit; Willard R. Starnes, M.S., Biochem., Metab. Research Lab.; Birmingham, Ala. (9651)

1143. Studies in Patients With Hypothyroidism.

S. R. Hill, Jr., M.D., Ch. Metab. Sect.; J. A. Pittman, Jr., M.D., Ch. RI Unit; Willard R. Starnes, M.S., Ch. Biochem.; Birmingham, Ala. (9652)

1144. Studies on Patients With Pseudo-pseudo-hypoparathyroidism.

S. R. Hill, Jr., M.D., Ch. Metab. Sect.; J. A. Pittman, Jr., M.D., Ch. RI Unit; Willard R. Starnes, M.S., Ch. Biochem.; Birmingham, Ala. (9653)

1145. Methods of Inhibiting Aldosterone Secretion or Response.

S. R. Hill, Jr., M.D., Ch. Metab. Sect.; J. A. Pittman, Jr., M.D., Ch. RI Unit; Willard R. Starnes, M.S., Ch. Biochem., Metab. Research Lab.; Birmingham, Ala. (9654)

1146. A Comparison of the Anabolic Effects of Various Synthetic Androgens—The Metabolic Changes Wrought by Altering the Steroid Molecule.

S. R. Hill, Jr., M.D., Ch. Metab. Sect.; J. A. Pittman, Jr., M.D., Ch. RI Unit; Willard R. Starnes, M.S., Ch. Biochem., Metab. Research Lab.; Birmingham, Ala. (9655)

1147. Studies on the Renal Tubular Reabsorption of Phosphate and Other Tests of Hyperparathyroidism.

S. R. Hill, Jr., M.D., Ch. Metab. Sect.; J. A. Pittman, Jr., M.D., Ch. RI Unit; Willard R. Starnes, M.S., Ch. Biochem., Metab. Research Lab.; Birmingham, Ala. (9656)

1148. Measurements and Methods for Determining Conjugated Corticosteroids in Urine and Plasma.

S. R. Hill, Jr., M.D., Ch. Metab. Sect.; J. A. Pittman, Jr., M.D., Ch. RI Unit; Willard R. Starnes, M.S., Ch. Biochem., Metab. Research Lab.; Birmingham, Ala. (9657)

1149. A Comparison of Methods for Measuring Urinary and Plasma 17-Hydroxycorticosteroid Material.

S. R. Hill, Jr., M.D., Ch. Metab. Sect.; J. A. Pittman, Jr., M.D., Ch., RI Unit; Willard R. Starnes, M.S., Ch. Biochem., Metab. Research Lab.; Birmingham, Ala. (9658)

1150. Studies on Adrenal Cortical Response to ACTH Gel.

S. R. Hill, Jr., M.D., Ch. Metab. Sect.; J. A. Pittman, Jr., M.D., Ch., RI Unit; Willard R. Starnes, M.S., Ch. Biochem., Metab. Research Lab.; Birmingham, Ala. (9659)

1151. The Extraction and Identification of Steroids from Tumors of the Adrenal, Ovary, and Testes.

S. R. Hill, Jr., M.D., Ch. Metab. Sect.; J. A. Pittman, Jr., M.D., Ch., RI Unit; Willard R. Starnes, M.S., Ch. Biochem., Metab. Research Lab.; Birmingham, Ala. (9660)

1152. Investigation of Methods for Chromatographing Plasma Corticosteroids.

S. R. Hill, Jr., M.D., Ch. Metab. Sect.; J. A. Pittman, Jr., M.D., Ch. RI Unit; Willard R. Starnes, M.S., Ch. Biochem., Metab. Research Lab.; Birmingham, Ala. (9661)

1153. Studies of the Mechanism of Inhibition of the Hypothalamic Pituitary Adrenal System.

S. R. Hill, Jr., M.D., Ch. Metab. Sect.; J. A. Pittman, Jr., M.D., Ch. RI Unit; Willard R. Starnes, M.S., Ch. Biochem., Metab. Research Lab.; Birmingham, Ala. (9662)

1154. Control of Thyroid Activity: Acute Effect of Morphine, Vasopressin, and Estrogen on Thyroid Secretion Rate of the Dog.

James A. Pittman, Jr., M.D., Ch. RI Serv.; Robert W. Brown, Research Asst. (Anat.); Birmingham, Ala. (9664)

1155. Effect of Epinephrine on the Stimulatory Action of Triiodothyronine on Red Blood Cells.

James A. Pittman, Jr., M.D., Ch. RI Serv.; Robert W. Brown, Research Asst. (Anat.); Birmingham, Ala. (9665)

1156. Studies on the Amphenone-Like Effect of Sulfones and 2,3-*bis*(p-hydroxyphenyl) Valeronitrile and Proprionitrile on the Adrenal and Thyroid.

James A. Pittman, Jr., M.D., Ch. RI Serv.; Robert W. Brown, Research Asst. (Anat.); Birmingham, Ala. (9666)

1157. Control of Thyroid Activity: Effect of Estrogens, Androgens and Progesterone on Thyroxine Degradation Rate, Circulating Thyroxine Binding Protein, and Thyroid Secretion Rate and Clearance.

James A. Pittman, Jr., M.D., Ch. RI Serv.; Don Hamner, Phys. Science Aid (Gen.); Bernard H. Williams, Phys. Science Aid (Chem.); Birmingham, Ala. (9667)

1158. *In Vitro* Effect of Thyroid Stimulating Hormone on Release of Organic Iodine from the Thyroid.

James A. Pittman, Jr., M.D., Ch. RI Serv.; Robert W. Brown, Research Asst. (Anat.); Birmingham, Ala. (9668)

1159. Measurement of Adrenal Aldosterone Secretion Rate in Man.

James A. Pittman, Jr., M.D., Ch. RI Serv.; William E. Martindale, Biochem.; Bernard H. Williams, Phys. Science Aid (Chem.); Birmingham, Ala. (9669)

1160. Effect of Thyroxine and Triiodothyronine Analogues on Thyroid Secretion Rate.

James A. Pittman, Jr., M.D., Ch. RI Serv., VAH; T. Albert Farmer, M.D., Research Fellow in Endocrin. and Metab., Med. Coll. of Alabama; S. Richardson Hill, M.D., Ch. Endocrin. Div., VAH; Birmingham, Ala. (9670)

1161. Effect of Chlorpropamide on Thyroid Function.

Sheldon Skinner, Sr. Med. Student, Med. Coll. of Alabama; S. Richardson Hill, M.D., Ch., Endocrin. Div., VAH; William E. Martindale, Biochem.; James A. Pittman, Jr., M.D., Ch. RI Serv.; Birmingham, Ala. (9671)

1162. Paper Chromatographic Pattern of Endogenous Urinary Corticosteroids in Normal Subjects.

Ludwig Kornel, M.D., Ph. D., VAH, Research Fellow; Birmingham, Ala. (11140)

1163. Factors Influencing Water Diuresis in Man.

Maurice B. Burg, M.D., Resident Med.; Solomon Papper, M.D., Asst. Ch. Med.; Jack D. Rosenbaum, M.D., Asst. Ch. Med. (Deceased); Boston, Mass. (2654)

1164. The Effects of Isotonic, Hypotonic and Hypertonic Saline Infusions on the Renal Excretion of Sodium in Patients with Cirrhosis of the Liver.

Solomon Papper, M.D., Asst. Ch. Med.; Lawrence Saxon, M.D., Res. Med.; Boston, Mass. (2657)

1165. Renal Failure in Laennec's Cirrhosis of the Liver.

Solomon Papper, M.D., Asst. Ch. Med.; Joseph L. Belsky, M.D., Resident Med.; Kenneth H. Bleifer, M.D., Resident; Boston, Mass. (2660)

1166. The Diuretic Response to Administered Water in Patients with Primary Myxedema.

Kenneth H. Bleifer, M.D., Res. Med.; Joseph L. Belsky, M.D., Res. Med.; Lawrence Saxon, M.D., Res. Med.; Solomon Papper, M.D., Ch., Res. Ed.; Boston, Mass. (2662)

1167. The Effects of Secobarbital upon Renal Excretion of Water and Electrolytes in Man.

Joseph L. Belsky, M.D., Res. Med.; Kenneth H. Bleifer, M.D., Res. Med.; Lawrence Saxon, M.D., Res. Med.; Solomon Papper, M.D., Asst. Ch. Med.; Boston, Mass. (2663)

1168. Surgical Death Associated With Unsuspected Pheochromocytoma.

J. G. Teter, M.D., Resident, Gen. Surg.; H. Faxon, M.D., Ch. Surg.; E. T. O'Hara, M.D., Asst. Ch. Surg.; Frederick Duncan, M.D., Surg. Resident; Boston, Mass. (2684)

1169. The Effect of Surgical Operations on the Plasma Clearance of Infused Prednisolone.

Duncan Campbell, M.D., Resident, Surg.; Robert Karger, M.D., Resident, Surg.; Leon Marks, M.D., Staff Phys.; Frances DeLuca, A.B., Tech.; Mary Nash, A.B., Tech.; Boston, Mass. (2685)

1170. The Adrenocortical Response to Insulin Coma Therapy.

Frances DeLuca, A.B., Tech.; Leon Marks, M.D., Staff Phys.; Mary Nash, A.B., Phys. Science Aide; Daniel Weiss, M.D., Staff Psychiat.; Boston, Mass. (2686)

1171. The Effects of Surgical Operations on the Adrenocortical Response to ACTH.

Russell Estabrooks, M.D., Resident, Surg.; John Lonergan, M.D., Resident, Surg.; Leon Marks, M.D., Staff Phys.; John Murtaugh, M.D., Resident, Surg.; Vernon Strobl, M.D., Resident, Surg.; Frances DeLuca, A.B., Tech.; Mary Nash, A.B., Tech.; Boston, Mass. (2687)

1172. The Effects of Corticosteroid-Induced Adrenocortical Suppression on the Clinical Course of Patients With Metastatic Carcinoma of the Prostate.

Richard Chute, M.D., Staff Phys.; Leon Marks, M.D., Staff Phys.; Frances DeLuca, A.B., Tech.; Mary Nash, A.B., Tech.; Boston, Mass. (2698)

1173. Renal and Hepatic Excretion of I^{131} Diodrast.

Belton A. Burrows, M.D., Ch. RI Serv., VAH; Jerome B. Block, M.D., USPHS Post-Doctoral Research Fellow; Paul I. Jagger, M.D., USPHS Post-Doctoral Research Fellow; Gerald J. Hine, Ph. D., Phys. RI Serv., VAH; Boston, Mass. (2744)

1174. The Response of Hyperthyroidism to Radioiodine Therapy.

Belton A. Burrows, M.D., Ch. RI Serv.; D. Ward Slingerland, M.D., Phys. RI Serv.; Elisabeth S. Dell, B.S., Biochem. RI Serv.; Dorothy E. Graham, B.S., Biochem. RI Serv.; Boston, Mass. (2746)

1175. The Effect of Antithyroid Compounds on Intrathyroidal Iodine Metabolism.

D. Ward Slingerland, M.D., Phys., RI Serv.; Philip Mulvey, Ph. D., Biochem., RI Serv.; Dorothy E. Graham, B.S., Biochem., RI Serv.; Agaia Ballas, B.S., Biol., RI Serv.: Boston, Mass. (2765)

1176. The Effect of Propylthiouracil on Thyroxine Metabolism.

D. Ward Slingerland, M.D., Phys., RI Serv.; Philip Mulvey, Ph. D., Biochem. RI Serv.; Agaia Ballas, B.S., Biol. RI Serv.; Boston, Mass. (10240)

1177. Identification of an Unknown Iodinated Compound in Rat Thyroid Glands.

D. Ward Slingerland, M.D., Phys. RI Serv.; Philip Mulvey, Ph. D., Biochem. RI Serv.; Boston, Mass. (10241)

1178. The Effect of Propylthiouracil on Uptake of Radioiodine.

D. Ward Slingerland, M.D., Phys. RI Serv.; Philip Mulvey, Ph. D., Biochem., RI Serv.; Boston, Mass. (10243)

1179. The Effect of Thyroid on the Block in Binding Imposed by Propylthiouracil.

D. Ward Slingerland, M.D., Phys., RI Serv.; Philip Mulvey, Ph. D., Biochem., RI Serv.; Agaia Ballas, B.S., Biol., RI Serv.; Boston, Mass. (10244)

1180. Mathematical Analysis Applied to Tracer Studies of Iodine Metabolism.

Anthony Liuzzi, B.S., Physicist, RI Serv.; Gerald J. Hine, Ph. D., Physicist, RI Serv.; Boston, Mass. (10245)

1181. Water Diuresis Following the Ingestion of Large Volumes of Slightly Hypertonic Urea Solution by Hydropenic Subjects.

Laurence E. Earley, M.D., Resident Med.; Paul Davidson, M.D., Resident Med.; Solomon Papper, M.D., Asst. Ch. Med., Asst. Dir. Prof. Serv. for Research and Ed.; Boston, Mass. (10246)

1182. Total Exchangeable Potassium and Chloride and Total Body Water in Healthy Men of Varying Water and Fat Content.

Eldon Boling, M.D., Staff Phys., Med.; Virginia Rice, M.S., M.S., Med. Serv.; Boston, Mass. (10248)

1183. The Inhibition of The Pituitary-Adrenocortical Response to Stress by The Newer Analogues of Hydrocortisone.

Gilbert Friedman, M.D., Resident, Surg.; Leon Marks, M.D., Staff Phys.; Edward O'Hara, M.D., Staff Surg.; Frances DeLuca, A.B., Tech.; Mary Nash, A.B., Tech.; Boston, Mass. (10249)

1184. The Effect of Corticosteroid or Corticotropin Therapy Prior to Surgery on The Adrenocortical Response to Operation.

Michael Donovan, M.D., Resident, Surg.; Frederick Duncan, M.D., Resident, Surg.; Robert Karger, M.D., Resident, Surg.; Leon Marks, M.D., Staff Phys.; Frances Deluco, A.B., Tech.; Mary Nash, A.B., Tech.; Boston, Mass. (10250)

1185. The Effects of Estrogens on Adrenocortical Metabolism in Adult Males.

Frederick Duncan, M.D., Resident, Surg.; Gilbert Friedman, M.D., Resident, Surg.; Leon Marks, M.D., Staff Phys.; Frances DeLuca, A.B., Tech.; Mary Nash, A.B., Tech.; Boston, Mass. (10251)

1186. Thyroxin Metabolism in Patients with Severe Pulmonary Insufficiency.

Arnold Golodetz, M.D., Sr. Resident, Med. Serv.; Boston, Mass. (10252)

1187. The Natural History of Acute Glomerular Nephritis in Adults.

S. Papper, M.D., Asst. Ch. Med., Asst. Div. Prof. Serv. for Research and Educ.; Boston, Mass. (10253)

1189. The Effect of Change in Dietary Salt Intake upon the Diurnal Rhythm of Sodium Excretion.

Solomon Papper, M.D., Asst. Ch. Med., Asst. Dir. Prof. Serv. for Research & Educ.; Frederick O'Brien, M.D., Resident Med.; Paul Davidson, M.D., Resident Med.; Laurence E. Earley, M.D., Resident Med.; Boston, Mass. (10254)

1189. The Effect of Rapid Change in Posture on Sodium and Water Excretion.

Ruben G. Lancestremere, M.D., Research Fellow from Univ. of Buenos Aires; Boston, Mass. (10255)

1190. The Effects of 9-alpha-Fluorohydrocortisone on Body Sodium Content.

Maurice B. Strauss, M.D., Ch. Med.; Laurence E. Earley, M.D., Resident Med.; Boston, Mass. (10256)

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1191. The Effect of 9-alpha-fluorohydrocortisone on Body Fluid Homeostasis.

Laurence E. Earley, M.D., Resident Med.; Paul Davidson, M.D., Resident Med., Maurice B. Strauss, M.D., Ch. Med.; Boston, Mass. (10257)

1192. The Effect of Testosterone Propionate on The Adrenocortical Response to Surgery.

Robert Karger, M.D., Resident, Surg.; Leon Marks, M.D., Staff Phys.; Frances DeLuca, A.B.; Tech.; Mary Nash, A.B., Tech., Boston, Mass. (10301)

1193. Sodium Content of Four Commonly Used Antacids.

Kenneth H. Bleifer, M.D., Resident Med.; Joseph L. Belsky, M.D., Resident Med.; Daniel J. Bleifer, M.D., Staff Phys.; Boston, Mass. (10302)

1194. The Effect of Liver Disease on The Adrenocortical Response to Surgery.

Michael Donovan, M.D., Resident, Surg.; Gilbert Friedman, M.D., Resident, Surg.; Leon Marks, M.D., Staff Phys.; Frances DeLuca, A.B., Tech.; Mary Nash, A.B., Tech.; Boston, Mass. (10312)

1195. The Effect of a New Oral Hypoglycemic Agent in Diabetic Patients.

Joseph M. Looney, M.D., Ch. Clin. & Research Lab.; Arthur J. Hadler, M.D., Ch. Med. Serv.; Edward M. Russo, M.D., Intern. Med.; Abraham Wolbarsht, M.D., Intern. Med., VAOC; Boston, Mass. (8577)

1196. Treatment of Osteoporosis with Intravenous Calcium and Anabolic Agents.

Ernest Schwartz, M.D., Ch. Metab. Unit; Melvin Horwith, M.D., Attend., VAH, Asst. Prof. Med., Cornell Univ. Med. Sch.; Bronx, N.Y. (4558)

1197. Hypercalcemia of Cancer.

Ernest Schwartz, M.D., Ch. Metab. Unit; Gabriel Neumann, M.D., Ch. Resident; Bronx, N.Y. (4559)

1198. Report of a Case of Fatal Cholestasis Following Use of Nilevar.

Benjamin S. Gordon, M.D., Ch. Lab Serv.; Julius Wolf, M.D., Ch. Med. Serv.; Thomas Kraus, M.D., Resident Med. Serv.; Bronx, N.Y. (4561)

1199. Effect of Sympathetic Blocking Agents upon Thyrotoxicosis.

Ernest Schwartz, M.D., Ch. Metab. Unit; Bronx, N.Y. (4565)

1200. Clinical Pharmacologic Evaluation of ACTH and the Newer Corticoids.

Herbert S. Kupperman, M.D., Ph. D., Attend. Med., VAH, Assoc. Prof. of Med., New York Univ. Bellevue Med. Center; Ernest Schwartz, M.D., Ch. Metab. Unit, Ch. Med. Sect. A, VAH; Bronx, N.Y. (8658)

1201. Thymoma and Chromophobe Adenoma.

Dr. Robert A. Green, Asst. Ch. Chest Sect.; Bronx, N.Y. (8662)

1202. Cushing's Syndrome and Dermatomycosis.

Harry Shatin, M.D., Ch. Derm.; Albert Kellert, M.D., Resident, Derm., VAH; Orlando Canizares, M.D., Sr. Cons., Derm., VAH, Clin. Prof. Derm., NYU-Bellevue, Post Graduate Med. Sch.; Bronx, N.Y. (9068)

1203. Studies on the Structure of Enzymatic Breakdown Products from Casein and Egg Yolk Solids.

Eric H. Pollaczek, Ph. D., Biochem., Gen. Med. Research; Bronx, N.Y. (10091)

1204. The Preparation and Properties of Thioimidazo (b) Pyrazine, A Possible Anti-Thyroid Substance.

Bernard Klein, Ph. D., Ch. Chem. Sect., Lab. Serv.; Judith Berkowitz, Biochem., Gen. Med. Research; Bronx, N.Y. (10092)

1205. A Double Blind Study in the Use of Antihistamines for Reducing Reactions in Intravenous Pyelography.

Maury D. Sanger, M.D., Phys. Med. Serv.; David E. Ehrlich, M.D., Ch. Radiol. Serv., VAOC; Brooklyn, N.Y. (2829)

1206. The Role of Intravenous Fats in Surgical Nutrition.

Harry H. LeVeen, M.D., Ch. Surg. Serv.; Brooklyn, N.Y. (2906)

1207. Fat Metabolism in Surgical Stress.

Harry H. LeVeen, M.D., Ch. Surg. Serv; Brooklyn, N.Y. (10794)

1208. Hormone Excretion Levels in Diverse Endocrinopathies.

Grosvenor W. Bissell, M.D., Ch. Med. Serv.; Wells E. Fransworth, Ph. D., Research Biochem.; Alvin L. Scott, M.D.; Buffalo, N.Y. (3003)

1209. Clinical Trial of Orinase and Other Oral Antidiabetic Agents.

Grosvenor W. Bissell, M.D., Ch. Med. Serv.; Alvin Scott, M.D., Ward Phys., Buffalo, N.Y. (3005)

1210. A Preliminary Investigation of the Feasibility of Lowering Cholesterol Levels Through a Combination of Pyridoxine, Alpha-tocoperal acetate and Roniacol.

Grosvenor W. Bissell, M.D., Ch. Med. Serv.; Buffalo, N.Y. (3006)

1211. Pancreatic Islet Cell Tumor.

Joseph T. Roberts, M.D., Ch. Card. Sec.; Buffalo, N.Y. (3008)

1212. Study of the Action of Triiodothyronine in Myxedema and Allied Hypothyroidism Disorders.

Grosvenor W. Bissell, M.D., Ch. Med. Serv.; Irving L. Leff, M.D., Ward Phys., Med. Serv.; Buffalo, N.Y. (3013)

1213. Intravenous Fat in the Treatment of Renal Disease.

Grosvenor W. Bissell, M.D., Ch. Med. Serv.; Buffalo, N.Y. (3017)

1214. A Study of Adrenocortical Function in Pulmonary Tuberculosis.

Grosvenor W. Bissell, M.D., Ch. Med. Serv.; Annabel B. Miller, M.D., Ch. Pulm. Dis. Sect.; Buffalo, N.Y. (3019)

1215. Gout in Sickle Cell Anemia.

Joseph T. Aquilina, M.D., Asst. Ch. Med. Serv.; John W. Moynihan, M.D., Ch. Hemat. Serv.; Grosvenor W. Bissell, M.D., Ch. Med. Serv.; John H. Talbott, M.D., Cons., Int. Med.; Buffalo, N.Y. (3020)

1216. Evaluation of Serum Glutamic Pyruvic Transaminase Determinations for Detection of Liver Disease.

Joseph T. Aquilina, M.D., Asst. Ch. Med. Serv.; Wells E. Farnsworth, Ph. D., Research Biochem.; Buffalo, N.Y. (3021)

1217. Use of 2-Methyl-1,2-bis-(3-Pyridyl)-1-Propanone(SU4885) as a Test of Pituitary Function in Man.

Grosvenor W. Bissell, M.D., Ch. Med. Serv.; Alvin L. Scott, M.D., Ward Phys., Med. Serv.; Wells E. Farnsworth, Ph. D., Research Biochem., Gen. Med.; Buffalo, N.Y. (9334)

1218. Metabolic and Morphological Studies of Experimentally Induced Infarcts.

John P. Kaltenbach, Ph. D., Med. Biochem., VAH; Robert B. Jennings, M.D., Attend. Path. VAH, Asst. Prof. Path., Northwestern Univ.; Chicago (Res.), Ill. (3619)

1219. Paper Electrophoresis for Protein and Hemoglobin Determination and Kunkel Zinc Sulfate Turbidity Test.

W. James Kuhl, M.D., Ch. Metab. Serv.; Chicago (Res.), Ill. (3620)

1220. Chromatographic Separation of Nucleotides, Nucleosides and Phosphagens in Tissues Without Precipitation of Protein and the Phosphagen Content of Normal and Diseased Muscle in Man.

Robert M. Dowben, M.D., Attend. Med., VAH, Assoc. Med., Northwestern Univ.; Morris A. Lipton, Ph. D., M.D., Asst. Dir. Prof. Serv. for Research, VAH; Chicago (Res.), Ill. (3647)

1221. Thyroid Function in Nyotonic Dystrophy.

W. James Kuhl, M.D., Ch. Metab. Serv., VAH; Robert M. Dowben, M.D., Attend., Med., VAH, Assoc. Med., Northwestern Univ.; Chicago (Res.), Ill. (3649)

1222. The Proper Utilization of Antithyroid Compounds Before, During and After I^{131} Therapy of Hyperthyroidism.

James W. Kuhl, M.D., Staff, Intern. Med.; John A. D. Cooper, Ph. D., M.D., Ch. RI Serv.; Chicago (Res.), Ill. (3805)

1223. Rb^{86} and Na^{22} as Tracers of the Movement of Ions between the Intracellular and Extracellular Compartments in Total-Body Irradiated Normal and Adrenalectomized Rats.

E. Irene Pentz, Ph. D., Therapeutic Radiol.; William T. Moss, M.D., Ch. Therapeutic Radiol.; Barbara N. Roecker, B.A., Biochem.; Chicago (Res.), Ill. (3821)

1224. The Relative Effectiveness of Tolbutamide, Chlorpropamide and Metahexamide in the Control of Diabetes Mellitus.

W. James Kuhl, Jr., M.D., Ch. Metab. Sec., Med. Serv.; Wesley G. Tomhave, M.D., Resident, Med.; Chicago (Res.), Ill. (9098)

1225. Relationship between Brain Serotonin Level and Endocrine Function.

Jack C. Towne, Ph. D., Asst. Ch. RI Serv.; Theophil Put, M.D., Resident RI, VAH, Joseph O. Sherman, Med. Student, Northwestern Univ.; Chicago (Res.), Ill. (9120)

1226. Activation of Glutamic Oxaloacetic Transaminase by Pyridoxal Phosphate.

Hyman J. Zimmerman, M.D., Attend. Phys., VAH, Ch., Dept. Med., Chicago Med. Sch.; Paul Heller, M.D., Asst. Dir. Prof. Serv. for Research, VAH; Leigh Rosenblum, M.D., Resident, Med. Serv.; Hyman G. Weinstein, M.S., Biochem. Research Lab.; Chicago (W.S.), Ill. (3718)

1227. Peripheral Utilization of Glucose in Hepatic Disease.

J. M. Levitsky, M.D., Ch. RI Serv., Asst. Ch. Med. Serv., VAH; J. J. Zimmerman, M.D., Chm. Dept. of Med., Prof. of Med., Chicago Med. Sch.; Chicago (W.S.), Ill. (3727)

1228. Study of Urate Excretion in Gouty Arthritis.

Max Montgomery, M.D., Attend. Phys., VAH, Assoc. Prof. Med., Univ. of Illinois Coll. of Med.; Aaron B. Kendrick, Ph. D., Biochem., Univ. of Illinois Coll. of Med.; Clifford G. Pilz, M.D., Asst. Ch. Med. Serv., VAH; Chicago (W.S.), Ill. (3729)

1229. Fraction and Identification of the Immunologically Active Components of House Dust.

M. Samter, M.D., Attend. Phys., VAH, Assoc. Prof. Med., Univ. Ill. Coll. Med.; I. Fond, M.D., Ch. Allergist, Outpatient Treat. Clin.; Chicago (W.S.), Ill. (3735)

1230. Significance of Anti-Liver, Anti-Leukocyte and Anti-Connective Tissue Antibodies in the Serum of Humans.

P. Heller, M.D., Asst. Ch. Med. Serv.; V. Yakulis, B.S., Serol., Research Lab., VAH; H. J. Zimmerman, M.D., Chm. Dept. of Med., Chicago Med. Sch.; Chicago (W.S.), Ill. (3750)

1231. Pituitary Cytology in Hepatic Cirrhosis.

J. Valaitis, M.D., Asst. Ch. Lab. Serv.; J. Levitsky, M.D., Ch. RI Serv., Asst. Ch. Med. Serv.; O. Mendeloviciute, B.S., Hist., Research Lab.; Chicago (W.S.), Ill. (3761)

1232. Myoglobinuria and Myoglobinuric Nephrosis.

Jonas Valaitis, M.D., Asst. Ch. Lab. Serv.; Bernard Chomet, M.D., Ch. Lab. Serv.; Clifford G. Pilz, M.D., Asst. Ch. Med. Serv.; Herman Oliner, M.D., Resident Med. Serv.; Chicago (W.S.), Ill. (3769)

1233. Digestibility of Dehydrated Foods.

Roy J. Korn, M.D., Ch. Med. Serv.; Richard D. Eckhardt, M.D., Ch. Med. Serv. (former); Chicago (W.S.), Ill. (3770)

1234. Intrinsic Factor Components Inhibiting Absorption of Co^{58} Cyanocobalamin.

Paul Heller, M.D., Asst. Dir. Prof. Serv. for Research; Walter J. Henderson, B.S., Asst. Ch. RI Serv.; Everett N. Bowser, B.S., Prin. Scien. RI Serv.; John Levitsky, M.D., Ch. RI Serv.; Chicago (W.S.), Ill. (3787)

1235. Distribution of Co^{58} Cyanocobalamin in Cirrhotic Rat.

Paul Heller, M.D., Asst. Dir. Prof. Serv. for Research; John Levitsky, M.D., Ch. RI Serv., Asst. Ch. Med. Serv.; Walter J. Henderson, B.S., Physicist, Asst. Ch. RI Serv.; Everett N. Bowser, B.S., Prin. Scien. RI Serv., VAH; Hyman J. Zimmerman, M.D., Attend. Phys. VAH, and Prof. of Med., Chicago Med Sch.; Chicago (W.S.), Ill. (3788)

1236. Effects of Estradiol on Lecithin P-32 Content of Fatty Rat Liver.

Everett N. Bowser, B.S., Prin. Scien. RI Serv., VAH; Hyman J. Zimmerman, M.D., Attend. Phys. VAH, and Chm. Dept. of Med., Prof. of Med., Chicago Med. Sch.; Walter J. Henderson, B.S., Physicist, Asst. Ch. RI Serv., VAH; Chicago (W.S.), Ill. (3791)

1237. The Relationship of the Glycolytic and Krebs Cycle Enzymes in the Nucleated Cells of the Bone Marrow.

P. Heller, M.D., Asst. Dir. Prof. Serv. for Research; H. G. Weinstein, M.S., Biochem., Research Lab., VAH; H. J. Zimmerman, M.D., Chm. Dept. Med., Prof. Med., Chicago Med. Sch.; Chicago (W.S.), Ill. (3824)

1238. Evaluation of New Oral Hypoglycemic Agents.

H. J. Zimmerman, M.D., Chm., Dept. of Med., Prof of Med., Chicago Med. Sch.; R. J. Korn, M.D., Ch. Med. Serv., VAH; J. Levitsky, M.D., Ch. RI Serv., Asst. Ch. Med. Serv.; Chicago (W.S.), Ill. (8539)

1239. Serum Enzymes in Disease.

Hyman J. Zimmerman, M.D., Attend. Phys., VAH, Chm. Dept. Med., Prof. Med., Chicago Med. Sch.; Michael West, M.D., Form. Resident, Med. Serv., VAH; Paul Heller, M.D., Asst. Dir. Prof. Serv. Research; Roy J. Korn, M.D., Ch. Med. Serv.; Chicago (W.S.), Ill. (9371)

1240. The Antigenic Characteristics of Beef Heart Lactic Dehydrogenase.

Hyman J. Zimmerman, M.D., Attend. Phys., VAH, Chm. Dept. Med., Prof. Med., Chicago Med. Sch.; Paul Heller, M.D., Asst. Dir. Prof. Serv. Research, VAH; Vincent J. Yakulis, B.S., Serol., Research Lab.; Gertrude Schaffner, A.B., Biochem., Research Lab.; Chicago (W.S.), Ill. (9372)

1241. Effect of Injected Intrinsic Factor in Cirrhotic Rat.

Walter J. Henderson, B.S., Asst. Ch. RI Serv.; Everett N. Bowser, B.S., Prin. Scien. RI Serv.; Paul Heller, M.D., Asst. Dir. Prof. Serv. for Research; Roy J. Korn, M.D., Ch. Med. Serv.; Chicago (W.S.), Ill. (9373)

1242. *In Vitro* Uptake of Co^{58}-Cyanocobalamin by the Liver and Kidney of the Rat with Nutritional Hepatic Cirrhosis.

Everett N. Bowser, D.S., Prin. Scien. RI Serv.; Paul Heller, M.D., Asst. Dir. Prof. Serv. for Research; Walter J. Henderson, B.S., Asst. Ch. RI Serv.; Chicago (W.S.), Ill. (9374)

1243. An Investigation into the Antigenic Properties of Human Growth Hormone.

John Levitsky, M.D., Ch. RI Serv., Asst. Ch. Med. Serv.; Vincent J. Yakulis, B.S., Serol., Research Lab.; Chicago (W.S.), Ill. (9375)

1244. Studies on Anti-connective Tissue Antibodies.

Paul Heller, M.D., Asst. Dir. Prof. Serv. Research; Vincent J. Yakulis, B.S., Serol., Research Lab.; Bernhard Chomet, M.D., Ch. Lab. Serv., VAH; John Peters, M.D., Research Asst. Med., Univ. of Ill., Col. of Med.; Chicago (W.S.), Ill. (9376)

1245. Studies on Hormonal and Metabolic Factors in Human Diabetes Mellitus III. Adrenal Steroid Function.

Emile E. Werk, Jr., M.D., Ch. Metab. Sec.; Cincinnati, Ohio. (3103)

1246. Studies on Hormonal and Metabolic Factors in Human Diabetes Mellitus II. Insulin Sensitivity.

Emile E. Werk, Jr., M.D., Ch. Metab. Sec.; Cincinnati, Ohio. (3104)

1247. Adrenal Function in Patients with Carcinoma of the Lung.

Emile E. Werk, Jr., M.D., Ch. Metab. Sec.; Cincinnati, Ohio. (3105)

1248. A Study of Adrenal Steroid Function in a Young Female Patient With Myocardial Infarction, Adrenal Virilization and Polycystic Ovaries.

Emile E. Werk, Jr., M.D., Ch. Metab. Sec.; Cincinnati, Ohio. (10385)

1249. Turnover and Size of Bicarbonate Pool in the Rat.

R. A. Shipley, M.D., Ch. RI Serv., VAH; Nome Baker, Ph. D., Prin. Scien. RI Serv., VAC, Los Angeles, Calif.; R. E. Clark, B.S., Physicist, RI Serv., VAH; Cleveland, Ohio. (3127)

1250. Rate of Glucose Oxidation in Fed and Fasted Normal and Diabetic Rats.

N. Baker, Prin. Scien., VAC, Los Angeles, Calif.; R. A. Shipley, M.D., Ch. RI Serv., VAH; S. M. Skinner, Prof. of Chem., Case Inst. of Technology; R. E. Clark, Physicist, RI Serv.; Cleveland, Ohio. (3128)

1251. Pathways of Carbohydrate Metabolism in Animals.

D. O. Brummond, Ph. D., Biochem. RI Serv.; R. A. Shipley, M.D., Ch. RI Serv.; Cleveland, Ohio. (10643)

1252. Pathways of Carbohydrate Metabolism in Plants.

D. O. Brummond, Ph. D., Biochem. RI Unit; Cleveland, Ohio. (10804)

1253. Glucose Disposal in the Rat as Estimated by Analysis of the Whole Animal.

Reginald A. Shipley, M.D., Ch. RI Serv.; Ethel L. Chudzik, B.D., Biochem., RI Serv.; Dewey O. Brummond, Ph. D., Biochem., RI Serv.; Cleveland, Ohio. (3129)

1254. Hemosiderosis in Cases of Cirrhosis of the Liver.

Robert V. Thomson, M.D., Ch. Lab. Serv., VAH; William J. Winter, M.D., Attend. Spec. Path., VAH, Assoc. Prof. Path., Univ. of Miami Sch. of Med.; Coral Gables, Fla. (3202)

1255. Effect of Edathamic (EDTA) on Scleroderma.

Harvey E. Brown, Jr., M.D., Ch. Gen. Med. Sect., VAH; Lewis Capland, M.D., Cons. Derm., VAH, Clin. Asst. Prof. of Derm., Univ. Miami Sch. Med.; Coral Gables, Fla. (3219)

1256. Comparison of Growth of Rabbit Cells in Autologous and in Tissue Culture Systems.

Michael M. Sigel, Ph. D., Prof. Bact., Univ. of Miami Sch. of Med.; Marvin W. Morgan, M.D., Resident Surg., VAH; Coral Gables, Fla. (8514)

1257. Incubation of Adrenal Hormones With Surviving Tissues.

Dale A. Clark, Ph. D., Research Biochem.; Dallas, Tex. (3280)

1258. Uropepsin Excretion as an Index of Aldosterone Activity.

Holbrooke S. Seltzer, M.D., Ch. Metab. Unit; Dale A. Clark, Ph. D., Research Biochem.; Dallas, Tex. (3286)

1259. Hypercholesterolemia Associated with Mild Diabetes Mellitus and Its Response to Control of the Diabetic Process.

Holbrooke S. Seltzer, M.D., Ch. Metab. Unit; Dallas, Tex. (3287)

1260. Studies of Metabolism of Thiocholesterol.

Dale A. Clark, Ph. D., Research Biochem.; Dallas, Tex. (3288)

1261. Long-term Results of Tolbutamide Control of Diabetes Mellitus.

Roger H. Unger, M.D., Ch. GI, VAH; Leonard L. Madison, M.D., Assoc. Prof. of Intern. Med., The Univ. of Texas Southwestern Med. Sch.; Dallas, Tex. (3291)

1262. Fabrication and Evaluation of Improved Extractor for Use in Steroid Determination.

Dale A. Clark, Ph. D., Research Biochem.; Dallas, Tex. (3292)

1263. Synthesis of Thiopregnenolone.

Dale A. Clark, Ph. D., Research Biochem.; Dallas, Tex. (3293)

1264. An Attempt to Elicit Mechanism of DBI-Induced Hypoglycemia.

Roger H. Unger, M.D., Ch. GI, VAH; Leonard L. Madison, M.D., Assoc. Prof. of Intern. Med., The Univ. of Texas Southwestern Med. Sch.; Dallas, Tex. (3295)

1265. The Evaluation of a New Test for Mild Diabetes Employing a Non-Glucose Betacytotropin.

Roger H. Unger, M.D., Ch. GI; Dallas, Tex. (3298)

1266. The Prognostic and Diagnostic Significance of the Standard Oral Glucose Tolerance Test: 5-year Followup of 1,500 Subjects With Normal and Abnormal Glucose Tolerance Curve 5 Years Before.

Roger H. Unger, M.D., Ch. GI, VAH; Leonard L. Madison, M.D., Asst. Prof. of Intern. Med., The Univ. of Texas Southwestern Med. Sch.; Dallas, Tex. (3299)

1267. *In Vivo* Conversion of Corticosterone, Hydrocortisone, and Desoxycorticosterone to Aldosterone in Man.

Holbrooke S. Seltzer, M.D., Ch. Metab. Unit; Dale A. Clark, Ph. D., Research Biochem.; Dallas, Tex. (3301)

1268. *In Vivo* Conversion of Corticosterone, Hydrocortisone, and Desoxycorticosterone to Aldosterone in Man.

Holbrooke S. Seltzer, M.D., Ch. Metab. Unit; Dale A. Clark, Ph.D., Research Biochem.; Dallas, Tex. (3301)

1269. Plasma Insulin Activity During the Hypoglycemic Response to One of the Oral "Insulin Substitutes" (Orinase).

Holbrooke S. Seltzer, M.D., Ch. Metab. Unit; Dallas, Tex. (3302)

1270. The Effect of a Variety of Compounds on Pancreatic Beta Cell Activity.

Roger H. Unger, M.D., Staff Phys.; Dallas, Tex. (3307)

1271. The Influence of Glucagon on the Cerebral Utilization of Glucose.

Holbrooke S. Seltzer, M.D., Ch. Metab. Unit; Dallas, Tex. (3308)

1272. Urinary Excretion of Xanthurenic Acid and Indole-3-Acetic Acid in Human Diabetes Mellitus.

Holbrooke S. Seltzer, M.D., Ch. Metab. Unit; Dallas, Tex. (3310)

1273. Glucagon Assay.

Roger H. Unger, M.D., Ch. GI, VAH; Leonard L. Madison, M.D., Assoc. Prof. Intern. Med., the Univ. of Texas Southwestern Med. Sch.; Mary Sue McCall, Biol., RI Serv., VAH; Anna M. Eisentraut, Hemat., RI Serv.; Dallas, Tex. (3339)

1274. Role of Salicylates in Control of Mild Diabetes Mellitus.

Holbrooke S. Seltzer, M.D., Ch. Metab. Unit; Dallas, Tex. (3312)

1275. Study of Factors Affecting the Rate of Cholesterol Metabolism.

Dale A. Clark, Ph. D., Research Biochem.; Henry Lanz, Ph. D., Act. Dir. RI Serv.; Dallas, Tex. (3337)

1276. Blood Volume Alterations in Patients with Hyperthyroidism and Myxedema.

Seymour Eisenberg, M.D., Asst. Ch. Med Serv.; Lora Sue Keller, Biol. RI Serv.; Dallas, Tex. (3343)

1277. The Use of Radio-Chromium and Radio-Iron Uptake Technics in the Diagnosis of Certain Diseases of the Hematopoietic System: A Clinical Laboratory and Pathologic Correlation.

Roger H. Unger, M.D., Ch. GI; Dallas, Tex. (3344)

1278. The Effect of Plasma Volume Expansion on Aldosterone Excretion.

Seymour Eisenberg, M.D., Asst. Ch. Med. Serv.; Dallas, Tex. (8774)

1279. A Possible Method for Localizing Parathyroid Tissue During Surgery for Hyperparathyroidism.

Holbrooke S. Seltzer, M.D., Ch. Metab. Unit; Mary Sue McCall, Biol. RI Serv.; Anna M. Eisentraut, Hemat. RI Serv.; Dallas, Tex. (10321)

1280. Insulin Kinetics.

Roger H. Unger, M.D., Ch. GI; Mary S. McCall, Biol. RI Serv.; Lora S. Keller, Biol. RI Serv.; Anna M. Eisentraut, Hemat. RI Serv.; Leonard L. Madison, M.D., Cons. Med. Serv., VAH, Assoc. Prof. Intern. Med., The Univ. of Texas Southwestern Med. Sch.; Henry Lanz, Ph. D., Act. Dir. RI Serv.; Dallas, Tex. (10328)

1281. Islet Cell Explanation.

Roger H. Unger, M.D., Ch. GI; Dallas, Tex. (10329)

1282. A New Test of Pancreatic Acinar Function.

Roger H. Unger, M.D., Ch. GI; Dallas, Tex. (10330)

1283. Prophylaxis of Diabetes with Tolbutamide.

Roger H. Unger, M.D., Ch. GI; Dallas, Tex. (10331)

1284. Study of the Intravenous Tolbutamide Response Test in Liver Disease.

Roger H. Unger, M.D., Ch. GI; Dallas, Tex. (10332)

1285. Plasma and Erythrocyte Magnesium in Diabetes Mellitus.

Holbrooke S. Seltzer, M.D., Ch. Metab. Unit; Dallas, Tex. (10322)

1286. Studies of the Insulin Secreting Properties of Various Agents.

Holbrooke S. Seltzer, M.D., Ch. Metab. Unit; Dallas, Tex. (10323)

1287. Effect of Red Cell Hemolysates on Insulin Degradation.

Henry C. Lanz, Ph. D., Act. Dir. RI Serv.; Lora S. Keller, Biol. RI Serv.; Dallas, Tex. (10324)

1288. Studies Using Human Insulin.

Roger H. Unger, M.D., Ch. GI; Mary S. McCall, Biol. RI Serv.; Anna M. Eisentraut, Hemat. RI Serv.; Henry Lanz, Ph. D., Act. Dir. RI Serv.; Leonard L. Madison, M.D., Cons. Med. Serv., VAH, Assoc. Prof. Intern. Med., The Univ. of Texas Southwestern Med. Sch.; Dallas, Tex. (10325)

1289. The Demonstration of Insulin Binding in the Peripheral Tissues of Persons with Diabetes.

Roger H. Unger, M.D., Ch. GI; Mary S. McCall, Biol. RI Serv.; Lora S. Keller, Biol. RI Serv.; Anna M. Eisentraut, Hemat. RI Serv., VAH; Leonard L. Madison, M.D., Cons. Med. Serv., VAH, Assoc. Prof. Intern. Med., The Univ. of Texas Southwestern Med. Sch.; Dallas, Tex. (10326)

1290. The Demonstration of Insulin Binding in the Peripheral Tissues of Normal Humans.

Roger H. Unger, M.D., Ch. GI; Lora S. Keller, Biol. RI Serv.; Mary S. McCall, Biol. RI Serv., VAH; Leonard L. Madison, M.D., Cons. Med. Serv., VAH, Assoc. Prof. Intern. Med., The Univ. of Texas Southwestern Med. Sch.; Dallas, Tex. (10327)

1291. Evaluation of Serum Glutamic Oxalacetic Transaminase as a Screening Test for Blood Bank Blood.

William Matre, M.D.; Dayton, Ohio. (3377)

1292. A Study of Effectiveness of Sustained Action Tablets.

S. William Simon, M.D., Allergist; Dayton, Ohio. (3387)

1293. Effect of Large Doses of Nicotinic Acid on Cholesterol Level of the Blood.

Benjamin Chazin, M.D., Ch. Dom. Med. Clinic; Dayton, Ohio. (12032)

1294. Use of Oral Sulfonureas in Treatment of Diabetes.

Benjamin Chazin, M.D., Ch. Dom. Med. Clinic; Arthur M. Tiber, M.D., Cons.; Dayton, Ohio. (12079)

1295. Glucagon and the Regulation of Carbohydrate Metabolism.

H. Elrick, M.D., Ch. Research Lab.; C. J. Hlad, Jr., Asst. Ch. RI Serv.; Denver, Colo. (3517)

1296. Kinetics of Glucose Utilization in Man.

C. J. Hlad, Jr., M.D., Asst. Ch. RI Serv.; H. Elrick, M.D., Ch. Research Lab.; T. A. Witten, M.D., Asst. Ch. Med. Serv.; Denver, Colo. (3518)

1297. Fundamental Studies and the Clinical Application of the Binding Properties of Triiodothyronine.

C. J. Hlad, Jr., M.S., Physicist, RI Serv.; M. Ervin, Tech. RI Serv.; H. Elrick, M.D., Ch. RI Serv.; Denver, Colo. (9440)

1298. Preparation and Study of Antibodies to Protein Hormones.

H. Elrick, M.D., Ch. RI Serv.; D. Bossana, Ph. D., Research Fellow, RI Serv.; J. Tong, Ph. D., Ch. TB Research; Denver, Colo. (9441)

1299. Clinical Investigation of a New Antihistaminic SU 6518.

Rodney H. Jones, M.D., Asst. Ch. OP Serv.; Denver, Colo. (9442)

1300. Psychological and Physiological Changes Associated With Changes in Endocrine Status.

H. Elrick, M.D., Asst. Dir. Prof. Serv. for Research; L. Bernstein, Ph. D., Ch. Clin. Psychol.; A. Mahrer, Ph. D., Clin. Psychol.; Denver, Colo. (9443)

1301. Antidiuresis of Insulin.

H. V. Murdaugh, Jr., M.D., Clin. Invest.; R. R. Robinson M.D., Ch. Med. Resident; E. M. Doyle, B.S., Biochem.; Durham, N.C. (3850)

1302. Effect of Parathyroid Extract on Seromucoid and Bone Matrix.

W. P. Deiss, Jr., M.D., Ch. Med. Serv.; Leila B. Holmes, A.B., Biochem; James O. Wynn, M.D., Clin. Invest.; Durham, N.C. (3854)

1303. Evaluation of Parathyroid Function of Man.

J. E. White, M.D., Fellow in Med., Duke Univ.; W. P. Deiss, Jr., M.D., Ch. Med. Serv., VAH; James O. Wynn, M.D., Clin. Invest.; Durham, N.C. (3857)

1304. Biochemical Changes Associated With the Intravenous Administration of Ammonium Salts in Normal Subjects.

Malcolm P. Tyor, M.D., Ch. GI Sect.; William P. Wilson, M.D., Psychiat.; Durham, N.C. (3859)

1305. Variations in the Peripheral Arteriovenous Difference of Ammonia in Patients With Liver Disease.

Malcolm P. Tyor, M.D., Ch. GI Sect., VAH; Herbert O. Sieker, M.D., Assoc. Prof. Med., Duke Med. Center; Edward E. Owen, M.D., Asst. Resid. Med., VAH; Durham, N.C. (3860)

1306. The Effect of Gonadotropins and Zinc Upon Tissue Cultures of Embryo and Adult Roosters' Testes, Comparative Histology of Testes to Tissue Cultures.

A. G. Smith, M.D., Asst. Ch. Lab. Serv.; Constance M. Harley, M.S., Biol.; Hertha R. Cress, Ph. D., Biol.; Durham, N.C. (3807)

1307. Effect of Arginine on Electroencephalogram in Hepatic Coma.

W. P. Wilson, M.D., Psychiat.; M. P. Tyor, M.D., Ch. GI Sect.; Durham, N.C. (3924)

1308. An Investigation of the Effect of Insulin Hypoglycemia on the Hyperventilation Response in the EEG.

W. P. Wilson, M.D., Psychiat.; Durham, N.C. (3938)

1309. Investigation of the Kinetics of Soy Bean Goiter.

J. J. Van Wyk, M.D., Prof. Pediatrics, North Carolina Memorial Hosp.; M.B. Arnold, M.D., Pediatrician, North Carolina Memorial Hosp.; James O. Wynn, M.D., Clin. Invest., VAH; F. Pepper, M.D., Radiol., North Carolina Memorial Hosp.; Durham, N.C. (9492)

1310. Respiratory Exchange Ratios (Respiratory Quotients) in Patients with Frank Diabetes Mellitus, as Compared to Patients with Hyperthyroidism and Diabetic-Like Glucose Tolerance Curves.

James O. Wynn, M.D., Clin. Invest.; Herbert A. Saltzman, M.D., Ch. Pulm. Serv.; Durham, N.C. (9493)

1311. Delirium Study.

Robert L. Green, Jr., M.D., Clin. Invest.; Muriel J. McLauchlin, M.S.W.; Durham, N.C. (9494)

1312. Long Term Observations of Patients with Chronic Portal Systemic Encephalopathy, Using Kantrex.

Malcolm P. Tyor, M.D., Ch. GI Sect.; Robert L. Green, M.D., Clin. Invest.; Edward E. Owen, M.D., Asst. Resident Med., VAH; James H. Johnson, M.D., Instr. Med., Duke Med. Center; Durham, NC. (9495)

1313. Observations on Choline Esterase Levels in Patients with Parkinsonism and in Patients with Drug Induced Parkinsonism.

Robert L. Green, M. D., Clin. Invest ; Blaine S. Nashold, Jr., M.D., Ch. Nuerosurg. Sect.; Durham, N C. (9496)

1314. EEG Changes in Patients with Chronic Liver Disease and Elevated Ammonia Levels.

Robert L. Green, Jr., M.D., Clin. Invest.; Malcolm P. Tyor, M.D., Ch. GI Sect.; Durham, N.C. (9497)

1315. Insulin Tolerance Project.

Robert L. Green, Jr., M.D., Clin. Invest.; Durham, N.C. (9498)

1316. Social and Emotional Adjustment of Patients with Onset of Epilepsy in Adulthood.

Robert L. Green, Jr., M.D., Clin. Invest.; Muriel J. McLauchlin, M.S.W.; Durham, N.C. (9499)

1317. The Effect of Insulin Injections on Plasma Epinephrine, NEFA and Blood Sugar.

John M. Wallace, M.D., Ch. CV-Renal Sect., VAH; W. J. Harlan, M.D., Research Fellow, Duke Med. Center; Durham, N.C. (9512)

1318. Growth of Roosters' Testicular Tissue in Extra Gonadal Sites.

Albert G. Smith, M.D., Asst. Ch. Lab. Serv.; Hertha R. Cress, Ph. D., Biol.; Durham, N.C. (9513)

1319. Utilization of Urea N15 for Protein Synthesis on Low Protein Diet.

H. V. Murdaugh, M.D., Clin. Invest.; Henry Kamin, Ph. D., Biochem. RI Serv.; Durham, N.C. (9514)

1320. Electroencephalographic Changes in Uremia.

Albert Heyman, M.D., Ch. Neur. Sec., VAH; Noble J. David, M.D., Instr. Med., Duke Med. Center; Durham, N.C. (9515)

1321. The Metabolic Changes in Severe Chronic Lung Disease.

Herbert A. Saltzman, M.D., Ch. Pulm. Serv. VAH; Herbert O. Sieker, M.D., Assoc. Prof. in Med., Duke Medical Center; Felice Manfredi, M.D., Instr. Med., Research Fellow, Duke Med. Center; Durham, N.C. (9516)

1322. Effect of Insulin on Amino Acid Uptake in the Leg.

J. F. Flanagan, M.D., Ch. Med. Resident; Ronald C. Greene, Ph. D., Biochem. RI Serv.; Durham, N.C. (9517)

1323. The Influence of the Liver on Goldblatt Hypertension in Dogs.

John M. Wallace, M.D., Ch. CV–Renal Sec., VAH; Serge Fabre, M.D., Research Fellow, VAH; Alan M. Lesage, M.D., Fellow in Thoracic Surg., Duke Med. Center; E. A. Stead, Jr., M.D., Cons. to VAH, Prof. of Med., Duke Med. Center; Durham, N.C. (9518)

1324. The Influence of the Liver on Blood Levels of Epinephrine and Norepinephrine in Humans.

John M. Wallace, M.D., Ch. CV–Renal Sec., VAH; E. A. Stead, Jr. M.D., Cons. to VAH, Prof. of Med. Duke Med. Center; Durham, N.C. (9519)

1325. The Peripheral Arteriovenous Oxygen Difference in Sickle Cell Disease Crisis.

Felice Manfredi, M.D., Instr. Med., Research Fellow, Duke Med. Center; Angelo Spoto, M.D., Fellow in Med., Duke Med. Center; Herbert O. Sieker, M.D., Assoc. Prof. Med., Duke Med. Center; Herbert A. Saltzman, M.D., Ch. Pulm. Serv., VAH; Durham, N.C. (9520)

1326. Penicillin Hypersensitivity.

William Weiss, M.D., Attend. Inter. Med. and Allergy; East Orange, N.J. (3993)

1327. Histidine Metabolism in the Anemia of Cirrhosis.

Hyam A. Weiner, M.D., Ch. Med. Serv.; Donald Feldman, M.A., Ch. Biochem. Sec., Med. Research Lab.; David Kirman, Chemist, Med. Research Lab.; Royal Allen, Jr., B.A., Phys. Science Aide; Stanley W. Morgenstern, B.S., Biochem. Med. Research Lab.; East Orange, N.J. (3995)

1328. An Investigation of the Effects of Adrenal Hormones on Electrolyte Exchanges in Human Erythrocytes.

Edward Kessler, M.D., Attend., Med. Serv.; Anthony J. Bruno, M.D., Resident, Med. Serv.; Donald Cuccia, M.D., Resident, Med. Serv.; Royal Allen, Jr., B.A., Med. Tech., Med. Research Lab.; East Orange, N.J. (4001)

1329. Anergy and Hodgkin's Disease.

Robert M. Levy, M.D., Resident, Med. Serv.; East Orange, N.J. (4008)

1330. Association of Dupuytren's Contracture With Systemic Disease and Evaluation of Operative Methods.

Stephen LoVerme, M.D., Staff Surg.; East Orange, N.J. (4016)

1331. Thorazine Jaundice: Case Studies.

Stephen LoVerme, M.D., Phys., Surg. Serv.; East Orange, N.J. (4017)

1332. Spirolactones in Treatment of Edema.

Edward Kessler, M.D., Attend. Med. Serv.; Robert M. Levy, M.D., Resident, Med. Serv.; Donald Cuccia, M.D., Resident, Med. Serv.; Anthony J. Bruno, M.D., Resident, Med. Serv.; East Orange, N.J. (9413)

1333. Evaluation of Adrenal Function Following Water Tolerance Test by Means of Treatment With Steroids.

Hyam A. Weiner, M.D., Ch. Med. Serv.; J. Lester Gabrilove, Cons., Med. Serv.; East Orange, N.J. (9414)

1334. Study of the Metabolism of Compound F in Normal Subjects and in Patients With Hypo and Hyperadrenocorticalism.

Smith Freeman, M.D., Ph. D., Cons. Research, Prof. and Chm., Dept. of Biochem., Northwestern Univ. Med. Sch.; Joanna X. Wheeler, B.S., Biochem., Research Serv., VAH; Epperson E. Bond, B.S., Biochem., Research Serv.; Hines, Ill. (4182)

1335. The Isolation and Determination of Estrogens From Body Fluids.

Smith Freeman, M.D., Ph. D., Cons. Research, VAH, Prof. and Chm., Dept. of Biochem., Northwestern Univ. Med. Sch.; Joanna X. Wheeler, B.S., Biochem., Research Serv, VAH; Epperson E. Bond, B.S., Biochem., Research Serv.; Hines, Ill. (4183)

1336. The Hydrolysis, Extraction and Isolation of Urinary Steroids.

Smith Freeman, M.D., Ph. D., Cons. Research, Prof. and Chm., Dept of Biochem., Northwestern Univ. Med. Sch.; Joanna X. Wheeler, B.S., Biochem., Research Serv., VAH; Epperson E. Bond, B.S., Biochem., Research Serv.; Gloria A. Phillips, B.A., Biochem., Research Serv.; Hines, Ill. (4186)

1337. Autoradiographic Localization of P^{32} Phosphate in Metastatic Carcinoma of Breast to Bone.

Ervin Kaplan, M.D., Act. Assoc. Dir. RI Serv.; James Miree, Jr., M.D., Staff Phys. Radiol. Serv.; Theodore Fields, M.S., Physicist, RI Serv; Hines, Ill. (4216)

1338. A Study of Activity of Serum Glutamic Oxaloacetic Transaminase in Cervical Cord Lesions.

Alex J. Arieff, M.D., Attend. Phys. Neur. Serv.; Stanley W. Pyzik, M.D., Ch. Spinal Cord Injury Sect. Neur. Serv.; Joseph Bernsohn, Ph. D., Biochem. Research Serv.; Hines, Ill. (4283)

1339. Plasma and Red Cell Cholesterol.

I. Gordon Fels, Ph. D., Biochem. RI Serv.; Eugene L. Kanabrocki, B.A., Biochem. RI Serv.; Ervin Kaplan, M.D., Act. Assoc. Dir. RI Serv., Hines, Ill. (4335)

1340. The Effect of Serum Cholesterol Levels on the Erythrocyte Cholesterol.

I. Gordon Fels, Ph. D., Prin. Scien. RI Serv.; Eugene L. Kanabrocki, B.S., Biochem. RI Serv.; Ervin Kaplan, M.D., Act. Assoc. Dir. RI Serv.; Hines, Ill. (10378)

1341. Study of Serum Lipids in Patients with Peptic Ulcer.

Smith Freeman, M.D., Ph. D., Cons. Research, VAH; Prof. and Chm. Dept. of Biochem., Northwestern Univ. Med. Sch.; William T. Lampe II, M.D., Resident, Med. Serv., VAH; J. X. Wheeler, Biochem. Research Serv.; Epperson E. Bond, Biochem. Research Serv.; Gloria A. Phillips, Biochem. Research Serv.; Hines, Ill. (10811)

1342. The Effects of Sulfonilamide, ACTH, and Cortisone on Rabbits with Alloxan-Induced Diabetes.

Ferenc Gyorkey, M.D., Path.; Houston, Tex. (4371)

1343. Evaluation of the Effects of Intracranial Injury and Surgery Upon Urinary Excretion of Aldosterone and Antidiuretic Substance.

George W. Curd, Jr., M.D., Staff Phys.; Joseph W. Robertson, M.D., Ch. Neurosurg. Sect.; Joe Meyer, Ph. D., Ch. Gen. Med. Research Lab.; Houston, Tex. (4376)

1344. The Study of Calcium and Phosphorus Metabolism in Dogs Following Total Thyroparathyroidectomy.

George L. Jordan, Jr., M.D., Ch. Surg. Serv.; George W. Curd, Jr., M.D., Staff Phys.; Houston, Tex. (4411)

1345. Effect of Dionosil on Iodine 131 Uptake by the Thyroid.

Mary C. Morgan, M.D., Ch. RI Serv.; Irving Chofnas, M.D., Ch. TB Sect.; John W. Stover, M.D., Staff Phys. Med. Serv.; Jean Newton, M.D., Staff Phys. Med. Serv.; Houston, Tex. (4456)

1346. Pathological Physiology of the Thyroid and Thyroid Hormone in Hepatic Disease.

Hugh D. Bennett, M.D., Ch. Med. Serv.; John W. Stover, M.D., Staff Phys.; Mary C. Morgan, M.D., Ch. RI Serv.; Houston, Tex. (4457)

1347. Effect of Pyridium on Iodine 131 Uptake.

John W. Stover, M.D., Staff Phys.; Hugh D. Bennett, M.D., Ch. Med. Serv.; Mary C. Morgan, M.D., Ch. RI Serv.; Houston, Tex. (4458)

1348. Effect of Bowel Sterilization on Iodine 131 Uptake by the Thryoid Gland.

Hugh D. Bennett, M.D., Ch. Med. Serv.; Jethro B. Rochelle III, M.D., Staff Phys.; Mary C. Morgan, M.D., Ch. RI Serv.; Houston, Tex. (4461)

1349. Chromatographic Method of Iodide Analysis.

Mary C. Morgan, M.D., Ch. RI Serv.; Jean J. Szafir, M.S., Biochem., RI Serv., VAH; Roy V. Talmage, Ph. D., Ch. Biol. Dept., The Rice Inst.; Richard B. Turner, Ph. D., Assoc. Prof. Chem., The Rice Inst.; Houston, Tex. (4466)

1350. Species Variations in Thyroid Hormones.

Samuel R. Lerner, Ph. D., Asst. Ch. (Scien.) RI Serv.; Mary C. Morgan, M.D., Ch. RI Serv.; Houston, Tex. (4468)

1351. The Effects of Thyroid Hormones on Cholesterogenesis by Liver and Aorta.

Samuel R. Lerner, Ph. D., Asst. Ch. (Scien.) RI Serv.; Mary C. Morgan, M.D., Ch. RI Serv.; Houston, Tex. (4469)

1352. The Clinical Evaluation of Hexadecadrol (16 alpha-methyl-9 alpha-fluoro-prednisolone) in Rheumatoid Arthritis.

George W. Curd, Jr., M.D., Ch. Arth. Sec., VAH; Jesse W. Hofer, M.D., Cons. Arth., VAH, Asst. Prof of Med., Baylor, and Assoc. Prof. of Med., Univ. of Texas, Postgrad. Sch. of Med.; Houston, Tex. (8790)

1353. The Effect of Sudden Changes in Serum Calcium Concentration Upon the Pancreas in the Dog.

George L. Jordan, Jr., M.D., Ch. Surg. Serv.; Ethel E. Erickson, M.D., Asst. Ch. Path. Serv.; Houston, Tex. (10945)

1354. Development of an Improved and More Rapid Technique for the Assay of Aldosterone.

J. Meyer, Ch. Gen. Med. Research Lab.; Louis Lucco, Pharm.; Houston, Tex. (10949)

1355. Study on Possible Relationship of Dietary Cholesterol to Coronary Heart Disease.

Adelle C. Pittman, Ch. Nutrition Clinic, VARO; Sidney Schnur, M.D., Attend. Inter. Med., VARO, Assoc. Prof. Clin. Med., Baylor Univ.; Houston, Tex. (4472)

1356. Study of Diarrheas in Diabetic Patients.

F. Hoback, M.D., Ward Phys. Med. Serv.; G. Crews, B.S., Ch. Clin. Chem. Unit, Lab. Serv.; Huntington, W. Va. (4823)

1357. The Regulation of Pepsin Secretion and Its Relationship to Ulcer Formation.

Robert E. Lempke, M.D., Asst. Ch. Surg. Serv.; Indianapolis, Ind. (4770)

1358. Distribution of I-131 Labeled Adrenocortitrophin (ACTH) in Adrenal Dysfunction.

James E. Durlacher, B.S., Asst. Ch. RI Serv.; Francis W. Morthland, Ph. D., Asst. Ch. RI; John L. Guinn, M.D., Resident Radiol.; James B. Mullen, M.D., Phys., Pulm. Disease Sect.; David E. Rosenbaum, M.D., Ch. Lab. Serv.; Indianapolis, Ind. (4795)

1359. The Distribution and Metabolism of Adrenocortitrophin (ACTH) in Animals.

Francis W. Morthland, Ph. D., Asst. Ch. RI Serv.; Milton Bluitt, Jr., Med. Tech.; Indianapolis, Ind. (4801)

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1360. ACTH Assay Based on Adrenal Concentration of Cobalt^{60} Vitamin B_{12}.

Leo Oliner, M.D., Ch. RI Serv.; Francis W. Morthland, Ph. D., Asst. Ch. RI Serv.; Indianapolis, Ind. (9137)

1361. Hyperthyroidism: Investigation of Qualitative and Quantitative Differences in Those With Diffuse and Nodular Goiter.

Leo Oliner, M.D., Ch. RI Serv., VAH; Helen D. Van Vactor, M.D., Asst. Prof. Med., Indiana Visiting Phys., Indianapolis Gen. Hosp.; Indianapolis, Ind. (9138)

1362. A Sodium, Potassium and Chloride Balance Study of Cirrhosis Patients as Influenced by Diet, Fluid Intake, Amphenone, and Other Drugs.

Richard E. Peterson, M.D., Dir. RI Research Unit; James J. O'Toole, Ph. D., Biochem. RI Research Unit; Iowa City, Iowa. (4855)

1363. Tryptophane Metabolism in Neurologic Disorders.

Maurice W. Van Allen, M.D., Ch., Neur. Sect.; Daniel H. Hug, Ph. D., Ch. Bact.; Iowa City, Iowa. (9583)

1364. Lipogenesis as Related to Age and Weight.

James J. O'Toole, Ph. D., Biochem. RI Serv.; Iowa City, Iowa. (9584)

1365. A Study of the Changes in Liver Function and the Coagulogram After Long Term Infusion of Intravenous Fat.

Curtis P. Artz, M.D., Assoc. Prof. of Surg., Univ. of Mississippi; J. Harold Conn, M.D., Ch. Surg. Serv., VAC; Warren N. Bell, M.D., Dir. of Lab. & Assoc. Prof. of Med., Univ. of Mississippi; Jackson, Miss. (10910)

1366. Studies in Lipid Chromatography in Old Age.

J. V. Cockrell, M.D., Dir. Prof. Serv.; M. Don Turner, Ph. D., Attend. Phy., Asst. Prof., Physiol. Chem., Univ of Miss.; W. W. Correll, Biochem.; Jackson, Miss. (4914)

1367. Development of Pine Pollen Skin Test Antigen.

Paul C. Hudgins, Research Biol.; C. Fred McCuiston, M.D., Dir. Spec. Sarcoidosis Clinic, VAO; Jacksonville, Fla. (10921)

1368. Effect on the Serum Amylase of Rats Injected Intraperitoneally with Human Gastric Juice and Human Duodenal Juice.

Arthur P. Klotz, M.D., Assoc. Prof. Med., Univ. of Kansas Med. Center; Robert Mosser, M.D., Resident Med., VAH; Ludwald Perry, M.D., Resident Med.; Kansas City, Mo. (4953)

1369. The Effect of Nephrectomy and Nephrectom-Adrenalectomy on Serum Amylase and Pancreatitis.

Paul R. Schloerb, M.D., Cons. in Surg.; Marie H. Carr, M.S., Biochem.; George A. Higgins, M.D., Ch. Surg. Serv.; Kansas City, Mo. (4958)

1370. Experience with the Extracorporeal Circulation Pump.

Theodore Batchelder, M.D., Staff Surg.; William A. Reed, M.D., Resident, Surg.; Kansas City, Mo. (4964)

1371. Development and Evaluation of a New Test for Gout.

Thomas J. Rankin, M.D., Dir. Prof. Serv.; George L. Curran, M.D., Prof. Geront., Univ. of Kansas Med. Center; Marie H. Carr, M.S., Biochem.; Kansas City, Mo. (4983)

1372. A Study of the *In Vitro* Synthesis of Thyroxin with the Use of C^{14} Tyrosine.

David V. Cohn, Ph. D., Prin. Scient. RI and Research Lab.; George W. Buckaloo, M.S., Scien.; Kansas City, Mo. (4985)

1373. Studies on the Site and Mechanism of I^{131} Binding by the Thyroid Gland.

David V. Cohn, Ph. D., Prin. Scien. RI and Research Lab.; George W. Buckaloo, M.S., Scien. RI Serv.; Kansas City, Mo. (4986)

1374. Development of *In Vitro* Assay for Parathyroid Hormone.

David V. Cohn, Ph. D., Prin. Scien. RI and Research Lab.; Kansas City, Mo. (4987)

1375. *In Vitro* Synthesis of Uric Acid.

Berton C. Pressman, Ph. D., Biochem. RI Serv., VAH; Kansas City, Mo.; Firmin E. Snodell, Invest., Univ. of Kansas Med. Center; Kansas City, Kans. (9608)

1376. The Further Evaluation of the Enzyme Ornithine Transcarbamylase in Serum.

Robert W. Brown, M.D., Asst. Ch. Med. Serv.; Kansas City, Mo. (9609)

1377. The Effect of Hyperthyroidism on Creatine Metabolism.

Glenn O. Bair, M.D., Resident, Med., VAH; Paul R. Schloerb, M.D., Asst. Prof. of Surg., Univ. of Kansas Med. Center, Kansas City, Kans; Kansas City, Mo. (9610)

1378. Modification of the Method of Serum Analysis of Ornithine Transcarbamylase.

Robert W. Brown, M.D., Asst. Ch. Med. Serv.; Kansas City, Mo. (9611)

1379. The Interrelationship of Thyroid Metabolism and Uremia.

Glenn O. Bair, M.D., Resident, Med., VAH, Kansas City, Mo.; Paul R. Schloerb, M.D., Asst. Prof. Surg., Univ. of Kansas Med. Center; Kansas City, Kans. (9612)

1380. Abnormal Metabolites and Liver Disease.

Robert W. Brown, M.D., Asst. Ch. Med. Serv.; Kansas City, Mo. (9613)

1381. Hepatic Vein Catheterization Studies.

Robert W. Brown, M.D., Asst. Ch Med. Serv.; Kansas City, Mo. (9614)

1382. Catechol Amine Excretion in "Tranquilized" Psychiatric Patients as Compared With "Untranquilized" Psychiatric Patients and Medical Control Patients.

William C. Hallow, Ph. D., Ch. Psychol. Serv.; Ruby S. Hirose, Ph. D., Biochem.-Bact.; Robert A. Houston, M.D., Ch. Med. Serv.; Mary M. Troll, M.D., Ch. Lab. Serv.; Lebanon, Pa. (11043)

1383. Alpha and Beta Lipoprotein and Cholesterol Content in Serum of Neuropsychiatric Patients as Compared with Medical Control Patients, The Former Being From Groups, Both With and Without Tranquilizers.

William C. Hallow, Ph. D., Ch. Psychol. Serv.; Ruby S. Hirose, Ph. D., Biochem.-Bact.; Robert A. Houston, M.D., Ch. Med. Serv.; Mary M. Troll, M.D., Ch. Lab. Serv.; Lebanon, Pa. (11044)

1384. The Importance of Performing Serum Magnesium Determinations in the Routine Clinical Laboratory.

Sue C. Stevens, Ph. D., Research Biochem.; Francis Neumayer, M.D., Surg. Serv.; John R. Gordon, M.D., Ch. Med Serv.; Charles F. Gutch, M.D., Med. Serv.; Nat J. Wilson, M.D., Ch. Neuropsychiat. Serv.; K. von Varga, M.D., Med. Serv.; Lincoln, Nebr. (6373)

1385. Ammonia Intoxication—Treatment with Artificial Kidney.

F. Neumayer, M.D., Surg. Serv.; L. A. Sojka, M.D., Surg. Serv.; S. C. Stevens, Ph. D., Research Biochem.; Lincoln, Nebr. (11009)

1386. Clinical Importance of Changes in Serum Osmolality.

S. C. Stevens, Ph. D., Research Biochem.; C. F. Gutch, M.D., Gen. Med. Serv.; F. Neumayer, M.D., Surg. Serv.; Lincoln, Nebr. (11012)

1387. Analysis of Polydipsia of Experimental Diabetes.

Eugene J. Towbin, M.D., Ph. D., Exec. Secretary, Research Comm.; Little Rock, Ark. (5062)

1388. Investigation on Endocrine Function in Patients with Hypertrophic Pulmonary Osteoarthropathy.

H. R. Hipp, M.D., Ch. Med. Serv., VAH; B. I. Heller, M.D., Prof. Med., Univ. of Arkansas Sch. of Med.; Little Rock, Ark. (5065)

1389. Labeling of Thyrotropin with Chromium-51.

William H. Perkins, M.D., Ch. RI Serv.; Little Rock, Ark. (5097)

1390. The Study of the Distribution of Iodine^{131}-Labeled ACTH.

William H. Perkins, M.D., Ch. RI Serv.; Little Rock, Ark. (8407)

1391. A Study of the Binding Capacity of Plasma for Insulin in Patients with Various Types of Disease.

Roslyn Wiener, M.D., Inst. Dept. of Med., Univ. of Ark. Sch. of Med.; William H. Perkins, M.D., Ch. RI Serv., VAH; Little Rock, Ark. (5084)

1392. Trace Minerals in Human Tissue.

Thomas T. Frost, M.D., Ch. Path.; Leopold N. Judah, M.D., Staff Psychiat.; Lloyd D. Seager, M.D., Prof. and Head, Dept. of Phy. and Pharm., Univ. of Arkansas Med. Center; Little Rock (No. Little Rock Div.), Ark. (10161)

1393. Allergenic Properties of Chlorpromazine.

Theo. E. Gagliano, M.D., Staff Psychiat.; Little Rock (No. Little Rock Div.), Ark. (10162)

1394. A Psycho-physiological Study of a Case of Porphyria.

George A. Reynolds, M.D., Resident Psychiat.; William M. Prado, Ph. D., Staff Psychol.; Christina Pinckney, SWS; Little Rock (No. Little Rock Div.), Ark. (10169)

1395. Study of Water and Electrolyte Metabolism in Premature Infants.

Alice Beard, M.D., Asst. Prof., Dept. of Pediatrics, Univ. of Arkansas Sch. of Med.; William H. Perkins, M.D., Ch. RI Serv., VAH; Little Rock, Ark. (10991)

1396. The Measurement of Strontium-90 Content in Human and Cow Milk by the Use of Exchange Resins.

Jeanne R. Bonar, M.D., Resident, Intern. Med.; James E. Doherty, M.D., Ch. Card. Sect.; Little Rock, Ark. (10992)

1397. Thyroid Function Studies During the First Few Days After Iodine-131 Therapy.

William H. Perkins, M.D., Ch. RI Serv.; Little Rock, Ark. (10993)

1398. The Use of Serum Transaminase Activity as an Index of Liver Damage.

Robert H. Hansen, M.D., Staff Phys.; J. Roberts Harrower, Prin. Scien. and Research Biochem.; Livermore, Calif. (5102)

1399. Electrophoretic Studies of Serum Amylase.

Jasper P. Lewis, M.S., Ch. Biochem. Dept.; Louisville, Ky. (5426)

1400. A Case of Pseudoxanthoma Elasticum (Grönblad-Strandberg Syndrome).

Louis Y. Peskoe, M.D., Asst. Ch. Med.; Louisville, Ky. (10763)

1401. EMG Pattern IN Myxdema.

Israel Muss, M.D., Ch. PMR; Louisville, Ky. (10764)

1402. Studies on the Mechanism of the Digitonin Reaction.

Jerre L. Noland, Ph. D., Ch. Med. Research Lab.; Paul X. Callahan, Ph. D., Research Biochem.; Mildred E. Lewis, B.S., Phys. Science Aid (Chem.); Louisville, Ky. (10765)

1403. Hormonal Activity of Some 3-Substituted Pregnenolone Derivatives.

Jerre L. Noland, Ph. D., Ch. Med. Research Lab.; Louisville, Ky. (10766)

1404. Experimental Study of Beta-Aminoisobutyric Acid (BAIB) Metabolism.

R. M. Fink, Ph. D., Cons., VAH, Assoc. Prof. Phy. Chem., Univ. of California at Los Angeles; K. Fink, Ph. D., Biochem. VAH; R. E. Cline, Ph. D., Research Biochem., Univ. of California at Los Angeles.; Long Beach, Calif. (5154)

1405. Clinical Survey of Urinary Amino Acids by Paper Chromatography.

R. M. Fink, Ph. D., Cons. VAH, Assoc. Prof. Phy. Chem., Univ. of California at Los Angeles; K. Fink, Ph. D., Biochem.; Long Beach, Calif. (5155)

1406. Evaluation of Tolerance to Intravenous Fat Emulsions as Parenteral Alimentations.

Lester Meister, M.D., Ch. Metab. Sec.; Long Beach, Calif. (5170)

1407. Evaluation of G-28315, or 1,2-diphenyl-3,5-dioxo-4- (B-phenylsulfoxy ethyl)—Pyrazolidine, for Uricosuric Effect.

Lester Meister, M.D., Ch. Metab. Sec.; Long Beach, Calif. (5171)

1408. Effects of Hormones on Thresholds of Arousal and Sleep in the Unanesthetized Rabbit.

M. Kawakami, M.D., Research Anat., Univ. of California at Los Angeles Med. Sch.; C. H. Sawyer, Ph. D., Cons. VAH, Prof. Anat., Univ. of California at Los Angeles Med. Sch.; J. D. French, M.D., Asst. Dir. Prof. Serv. for Research, VAH; Long Beach, Calif. (5208)

1409. Breathing Exercises in Treatment of Pulmonary Emphysema.

Cyril W. Anderson, M.D., Ch. Ambulatory Sect. Pulm. Disease Serv.; M. R. Rosenbloom, M.D., Ch. TB Sect. and Pulm. Func. Lab., VAH; A. Hemingway, Ph. D., Non-Med. Cons., VAH, Prof. Psychol., Univ. of California at Los Angeles; Long Beach, Calif. (5245)

1410. The *In Vitro* Inhibition of Acetyl Phosphatase by Thyroxine.

Isaac Harary, Ph. D., Biochem.; Long Beach, Calif. (5279)

1411. Role of the Liver in the Synthesis of B-Lipoproteins and Their Release into the Circulation.

Warner H. Florsheim, Ph. D., Asst. Ch (Scien.) RI Serv.; Ralph E. Bodfish, M.D., Phys.-in-Charge, RI Serv.; Long Beach, Calif. (5282)

1412. Allergen Preparation, Standardization, and Analysis.

Charles L. Heiskell, M.D., Resident Phys. Allergy Sect.; Kent H. Thayer, M.D., Ch. Allergy Sec.; Long Beach, Calif. (8410)

1413. Mechanism of Peripheral Action of Sulfanyl Ureas in Diabetes Mellitus

F. W. S. Modern, M.D., Ch. PMR Serv.; J. R. Goodman, Ph. D., Biochem.; Long Beach, Calif. (8836)

1414. Studies on Allergen Absorption and Metabolism When Given by the Intracutaneous and Subcutaneous Routes.

Kent H. Thayer, M.D., Ch. Allergy Sect.; Ralph E. Bodfish, M.D., Phys.-in-Charge RI Serv., VAH; Charles L. Heiskell, M.D., Asst. Research Immunol., Univ. California at Los Angeles Med. Sch.; Carl H. Buchholz, Biochem. RI Research, VAH; Long Beach, Calif. (8842)

1415. Cholesterol Changes in Response to Stress.

Joseph R. Goodman, Ph. D., Biochem.; Robert W. Porter, M.D., Ch. Neurosurg. Sect.; Frederick Kellogg, M.D., Cons. (Card.); Robert Liechti, M.D., Resident Surg. Serv.; Long Beach, Calif. (10714)

1416. Some Aspects of the Metabolism of Serum B-Lipoproteins.

Warner H. Florsheim, Ph. D., Asst. Ch. (Scient.) RI Serv.; Joseph R. Goodman, Ph. D., Biochem.; Long Beach, Calif. (10715)

1417. The Influence of Splenectomy, X-Radiation, Alkylating Agents, and Anti-Metabolites on Antibody Production.

Nathaniel B. Kurnick, M.D., Ch. Hemat. Serv.; Jack Ikeda, M.D., Resident, GI Sect.; Long Beach, Calif. (10716)

1418. Optimal Conditions for Acid Desoxyribonuclease Activity.

Nathaniel B. Kurnick, M.D., Ch. Hemat. Sec., VAH; Georgianna Sandeen, B.S., Tech., Univ. of California at Los Angeles Med. Sch.; Long Beach, Calif. (10717)

1419. Factors Influencing Iron Absorption.

Nathaniel B. Kurnick, M.D., Ch. Hemat. Serv.; Rachael K. Guth, M.D., Resident Phys.; Long Beach, Calif. (10718)

1420. Studies on the Effect of Adrenal Cortical Hormones Upon Evoked Potentials in the Brain Stem.

Robert W. Porter, M.D., Ch. Neurosurg.; Jack C. Todt, M.D., Resident, Neurosurg., VAH; Shaul Feldman, M.D., Junior Research Neur., Univ. of California at Los Angeles Med. Sch.; Long Beach, Calif. (10719)

1421. The Effect of Ovulation Upon Pituitary and Serum Gonadotropin Levels in the Rabbit.

Warner H. Florsheim, Ph. D., Asst. Ch. (Scient.) RI Serv., VAH; Charles H. Sawyer, Ph. D., Non-Med. Cons., VAH, Prof. of Anat., Univ. of California at Los Angeles Med. Sch.; Jessamine Hilliard, Ph. D., Asst. Research Anat., Univ. of California at Los Angeles Med. Sch.; Long Beach, Calif. (10720)

1422. Enzymatic Debridement of Wounds and Burns.

W. G. Clark, Ph. D., Sec. Ch. Phys.-Pharm., VAC; A. Weber, M.D., Sr. Resident Surg., Harbor Gen. Hosp., Torrance, Calif.; L. Ellmore, M.D., Dir. Med. Research, Orange County Gen. Hosp., Orange, Calif.; Los Angeles, Calif. (5601)

1423. A Study of the Therapeutic Effects of Steroids in Osteoporosis in the Male.

Samuel H. Bassett, M.D., Asst. Dir. Prof. Serv. for Research; Stewart G. Tuttle, M.D., Clin. Invest.; Los Angeles, Calif. (5603)

1424. Derivatives in the Urine of Patients with Various Hematological Dyscrasias.

Francis W. Davis, Chem.; Clyde A. Dubbs, Ph. D., Ch. Biochem. Research Serv., VAC; William S. Adams, M.D., Attend. Spec. Inter. Med., VAC, Prof. Med., Univ. of California at Los Angeles Med. Cen; William G. Figueroa, M.D., Attend. Phys., Inter. Med., VAC, Asst. Prof. Med., Univ. of California at Los Angeles Med. Cen.; Los Angeles, Calif. (5637)

1425. The Role of the Parathyroid in the Homeostatis Regulation of Calcium and Phosphorus Metabolism.

Charles R. Kleeman, M.D., Ch. Metab. Sec.; Donald Bernstein, M.D., Senior Resident Med.; Los Angeles, Calif. (5676)

1426. The Role of Renal Hemodynamics Rather Than Endocrine Factors in the Impaired Water Excretion in Addison's Disease, Anterior Pituitary Insufficiency and Myxedema.

Charles R. Kleeman, M.D., Ch. Metab. Sec.; Morton H. Maxwell, M.D., Attend. Spec. Med.; Jerry M. Koplowitz, M.D., Senior Resident Med.; Los Angeles, Calif. (5678)

1427. Chemical Study of Serum Proteins in Disease by Starch Gel Electrophoresis.

Clyde A. Dubbs, Ph. D., Ch. Biochem. Research Serv.; Los Angeles, Calif. (5698)

1428. Electron Microscopy of Human Liver.

Paul Ortega, M.D., Path., VAC; Sidney C. Medden, M.D., Cons. Path., VAC, Prof. Path., Univ. of California at Los Angeles Med. Center; John O. Erickson, Ph. D., Biophysicist, VAC; Los Angeles, Calif. (5719)

1429. Effect of "Vitamin A Utilization Factor" in Geriatric Patients and Visual Dark Adaptation Thresholds in Laennec's Syndrome.

W. G. Clark, Ph. D., Sect. Ch. Phy.-Pharm.; G. M. Kalmanson, M.D., Staff Phys.; R. S. Pogrund, Ph. D., Pharm., VAC; H. A. Knoll, Ph. D., Assoc. Research Biophys., Univ. of California at Los Angeles Med. Cent.; Los Angeles, Calif. (5720)

1430. The Clinical and Metabolic Effects of a New Hypoclycemic Agent N^1-B-Phenethylforma-Midinylininourea Hydrochloride (D.B.I.) Effective in the Absence of the Pancreas.

Charles R. Kleeman, M.D., Ch., Metab. Sect., VAC; Robert Tranquada, M.D., USPH Fellow, Univ. of California at Los Angeles Med. Cent.; Josiah Brown, M.D., Attend. Spec. Intern. Med., VAC, Prof. Med., Univ. of California at Los Angeles Med. Cent., Los Angeles, Calif (5721)

1431. Effect of Calcium Loading with and without ACTH on Calcium Nitrogen and Phosphorus Balances.

Samuel H. Bassett, M.D., Asst. Dir. Prof. Serv. for Research; Stewart G. Tuttle, M.D., Clin. Invest.; Charles R. Kleeman, M.D., Ch. Metab. Sect.; Los Angeles, Calif. (5731)

1432. Study of the Effect of Viokase on Absorption of Fat and Protein

Morton I. Grossman, M.D., Ch. GI Sect.; Paul H. Jordan, Jr., M.D., Asst. Ch. Surg.; Los Angeles, Calif. (5750)

1433. Study of the Essential Amino Acid Requirements of Men over 50.

Stewart G. Tuttle, M.D., Clin. Invest., VAC; Marian E. Swendseid, Ph. D., Cons. VAC, Assoc. Prof. Home Economics and Phy. Chem., Univ. of California at Los Angeles Med. Center; Wendell H. Griffith, Ph. D., Cons. Biochem. VAC, Prof. Phys. Chem., Univ. of California at Los Angeles Med. Center; Samuel H. Bassett, M.D., Asst. Dir. Prof. Serv. for Research, VAC; Los Angeles, Calif. (5836)

1434. Investigation of the Influence of Type of Dietary Fat Upon Incidence and Mortality of Coronary Heart Disease.

Semour Dayton, M.D., Clin. Invest.; Morton L. Pearce, M.D., Sec. Ch. Card, VAC; Los Angeles, Calif. (5842)

1435. Investigation of Iron Absorption in Hemochromatosis and Alcoholics and Patients with Various Gastrointestinal Disorders.

William G. Figueroa, M.D., Attend. Phys. VAC, Asst. Prof. Med., Univ. of California at Los Angeles Med. Center; Stewart G. Tuttle, M.D., Clin. Invest., VAC; Joseph F. Ross, M.D., Cons. RI Serv., VAC, Chm. and Dir. Dept. and Labs. of Nuclear Med. and Radiation Biol., Univ. of California at Los Angeles; Leon Rosove, M.D., Asst. Ch. Med. Serv., VAC; Los Angeles, Calif. (5855)

1436. Use of Azaserine in Experimental Work.

Melvin H. Levin, M.D., Attend. Spec. Intern. Med., VAC, and Asst. Clin. Prof. Med., Univ. of California at Los Angeles, Med Center; Richard Zuckerman, Ph. D., Research Fellow, Natl. Rheumat. and Arth.; William Drell, Ph. D., Asst. Research Phys. Chem., Univ. of California at Los Angeles Med. Center; William H. Blahd, M.D., Ch. RI Serv., VAC; Los Angeles, Calif. (5858)

1437. The Effects of Administered Estrogens on Thyroid Function.

A. U. Rivin, M.D., Attend. Sp. Med.; W. H. Blahd, M.D., Ch. RI Serv.; Los Angeles, Calif. (5864)

1438. Study of the Calcium, Phosphorus and Nitrogen Balance, and the Fate of Orally and Intravenously Administered Radiocalcium (Calcium^{45}) in a Patient with Cushing's Syndrome both Before and After Total Adrenalectomy.

Samuel H. Bassett, M.D., Asst. Dir. Prof. Serv. for Research; Charles R. Kleeman, M.D., Ch. Metab. Sec.; Stewart G. Tuttle, M.D., Clin. Invest.; Los Angeles, Calif. (5866)

1439. Exchangeable Body Potassium and Muscle Potassium Concentration in Muscular Dystrophic Mice.

W. H. Blahd, M.D., Ch. RI Serv.; N. Baker, Ph. D., Prin. Scien.; Los Angeles, Calif. (5875)

1440. *In Vivo* Studies of Muscular Dystrophic and Cancerous Mice and Humans with C^{14}-Labeled Compounds.

N. Baker, Ph. D., Prin. Scien. and Asst. Ch. Scien. Sec. RI Serv.; M. Tubis, M.S., Ch. Biochem. RI Serv.; W. H. Blahd, M.D., Ch. RI Serv.; E. Weinman, Ph. D., Asst. Research Phy. Chem., Univ. of California at Los Angeles Med. Center; Los Angeles, Calif. (5877)

1441. Miscellaneous Diagnostic Studies of the Nature of the Mouse Disease, Muscularis Dystrophica.

N. Baker, Ph. D., Prin. Scient. and Asst. Ch. Scient. Sec. RI Serv.; M. Tubis, M.S., Ch. Biochem. RI Serv.; W. H. Blahd, M.D., Ch. RI Serv.; W. H. Oldendorf, M.D., Assoc. Ch. Neur. Sec.; Los Angeles, Calif. (5881)

1442. The Production of "Fatty Acid Peroxides" in Tissues of Muscular Dystrophic Mice.

N. Baker, Ph. D., Prin. Scien. and Asst. Ch. Scien. Sec. RI; W. H. Blahd, M.D., Ch. RI Serv.; Los Angeles, Calif. (5882)

1443. Organ Distribution Studies with Radioiodinated Congo Red.

M. Tubis, M.S., Ch. Biochem. RI Serv.; W. H. Blahd, M. D., Ch. RI Serv.; R. A. Nordyke, M.D., Asst. Ch. RI Serv.; A. M. Breslau, M.A., Hist.; Los Angeles, Calif. (5883)

1444. Studies of Thyroid-Ovarian Interrelationships.

J. Thomas Dowling, M.D., Assoc. Ch. Metab. Sec.; Charles R. Kleeman, M.D., Ch. Metab. Sec.; Los Angeles, Calif. (8431)

1445. Catechol Amines and the Nervous System.

David T. Masuoka, Ph. D., Asst. Research Pharm., Univ. of California at Los Angeles Med. Center; Wm. G. Clark, Ph. D., Sec. Ch. Phy.-Pharm, VAC; Los Angeles, Calif. (8450)

1446. Clinical Investigation of Decadron in Various Dermatological Diseases.

Edwin T. Wright, M.D., Ch. Derm. Sec.; Los Angeles, Calif. (8455)

1447. Effect of 6-methyl-9-alpha fluoro-21-desoxy prednisolone (U8614) 16-methyl-prednisolone, 6-methyl-prednisioline, 2 methyl-9-alpha Fluoro-Prednisolone and Prednisolone on Thyroid Function.

J. Thomas Dowling, M.D., Assoc. Ch. Metab. Sec.; Gerald Koplowitz, M.D., Sr. Resident Med.; Charles R. Kleeman, M.D., Ch. Metab. Sec.; Los Angeles, Calif. (8432)

1448. Studies of Sex Differences in the Incidence of Goiter.

J. Thomas Dowling, M.D., Assoc. Ch Metab. Sec.; Charles R. Kleeman, M.D., Ch. Metab. Sec.; Los Angeles, Calif. (8446)

1449. Experimental Adrenal Insufficiency: *In vitro* and *in vivo* Studies on the Abnormal Water Metabolism.

Charles R. Kleeman, M.D., Ch. Metab. Sec.; Morton H. Maxwell, M.D., Attend., VAC, Assoc. Clin. Prof. Med., Univ. of California at Los Angeles Med. Cent.; J. Thomas Dowling, M.D., Assoc. Ch. Metab. Sec., VAC; Los Angeles, Calif. (8447)

1450. Isopropylnoradrenaline (Isuprel) as a Bronchiolar Sympathetic Transmitter.

William G. Clark, Ph. D., Sec. Ch., Pharm.-Phy., VAC; William Drell, Ph. D., Established Invest., AHA, Asst. Research Physiological Chem., Univ. California at Los Angeles-Med. Cent.; Los Angeles, Calif. (8848)

1451. Radiation Injury to the Kidney: An Experimental and Clinical Investigation.

Charles R. Kleeman, M.D., Ch. Metab. Sec., VAC; Morton H. Maxwell, M.D., Attend. Spec. Med., VAC, and Assoc. Clin. Prof. Med., UCLA-Med. Cent.; Justin J. Stein, M.D., Sr. Cons., Oncol., VAC, and Prof. Radio., UCLA-Med. Cent; William A. Gore, M.D., Ch. Irradiation Therapy Sec., VAC; Los Angeles, Calif. (9163)

1452. The Kinetics of the Synthesis and Peripheral Metabolism of Thyroid Hormone in Myotonic and Progressive Muscular Dystrophies.

J. Thomas Dowling, M.D., Assoc. Ch., Metab. Sec., VAC; John R. Kent, M.D., Resident in Med.; Los Angeles, Calif. (9173)

1453. Collective Title: Modifications of Methods for Determination of Substances by Biochemical Procedures.

George R. Kingsley, M.S., Ch. Biochem.; Gloria Getchell, B.A., Biochem.; Ozie Robnett, B.A., Biochem.; Roscoe R. Schaffert, B. A., Biochem.; Samuel Kremen, M.D., Resident in Path.; Los Angeles, Calif. (9185)

1454. The Use of Phospholine Iodide on Glaucoma Cases.

Richard L. Homes, M.D., Resident, Ophth.; Los Angeles, Calif. (9192)

1455. A Study of Uptake of I^{131} by Teeth.

Wilson W. Chase, D.D.S., Ch. Prosthet. Sec. Dent. Serv.; Donal H. Salk, D.D.S., Intern. Dent.; Steve M. Yokoyama, D.D.S., Intern. Dent.; William W. Wainwright, DDS., Cons. Radiobiol., VAC, Invest. for Howard Hughes Found.; Los Angeles, Calif. (9194)

1456. Investigation of Altered Circulation Transport of Thyroid Hormone in the Abnormalities of Iodine Metabolism Characteristic of Nephrosis.

J. Thomas Dowling, M.D., Assoc. Ch. Metab. Sec.; Los Angeles, Calif. (9195)

1457. Metabolic Effects of Unsaturated Fat Feeding.

Seymour Dayton, M.D., Clin. Invest.; Morton L. Pearce, M.D., Ch. Card. Sec.; Wilfrid J. Dixon, Ph. D., Cons. Research, VAC, and Prof. Biostatistics and Public Health, UCLA-Med. Cent.; Los Angeles, Calif. (9196)

1458. The Effects of Metabolic and Respiratory Acid-Base Disturbances on the Hemodynamics of the Pulmonary and Systemic Circulations.

Daniel H. Simmons, M.D., Ph. D., Ch. Respir. Lab., Sec. Ch. Gen. Med., VAC; Leonard M. Linde, M.D., Asst. Prof. Pediat., Univ. of Calif. at Los Angeles Med. Cent.; Norman Lewis, M.D., Resident Med., VAC; Los Angeles, Calif. (9197)

1459. Gluocorticoid-Mineralocorticoid Antagonism with Reference to the Renal Excretion of Electrolytes.

Charles R. Kleeman, M.D., Ch. Metabol. Sect., VAC; Jerry M. Koplowitz, M.D., Sr. Resident in Med., VAC; Morton H. Maxwell, M.D., Attend. Spec. Med., VAC, Assoc. Clin. Prof. Med., Univ. of Calif. at Los Angeles Med. Cent.; Los Angeles, Calif. (9882)

1460. To Determine the True Incidence of Diabetes in a Neuropsychiatric Hospital.

Abraham M. Balter, M.D., Ch. Med. Serv.; Act. Ch. Lab. Serv.; Lyons, N.J. (5499)

1461. The Incidence of Arteriosclerosis in Diabetics by Roentgen Study of the Lower Extremities.

Leroy T. Barnes, M.D., Ch. Radiol. Serv.; Lyons, N.J. (10698)

1462. Studies on Oxidative Phosphorylation, I. Influence of Various Conditions on Exchange Reactions.

A. B. Falcone, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research, Ch. Metab. Sect.; Dollie D. Wilson, Tech. VAH; Carol Harris, Proj. Asst. Univ. of Wisconsin; Madison, Wis. (5520)

1463. Mechanism of Action of Adenosinetriphosphate-Creatine Transphosphorylase.

A. B. Falcone, M.D.,, Ch. Metab. Sect., VAH; Stephen A. Kuby, Ph. D., Asst. Prof. Enzyme Institute II, Univ. Wisconsin; Madison, Wis. (5521)

1464. Mechanism of Action of Adenosinetriphosphate-Adenosinemonophosphate Transphosphorylase (Myokinase).

A. B. Falcone, M.D., Ch. Metab. Sect., VAH; Stephen A. Kuby, Ph. D., Asst. Prof. Enzyme Institute II, Univ. Wisconsin; Madison, Wis. (5522)

1465. A Study of the Mechanism of Serum Enzyme Elevations Under Norethandrolone (Nilevar) Therapy.

John F. Morrissey, M.D., Staff Member, VAH; Alfred H. Methfessel, M.S., Proj. Asst. Univ. of Wisconsin; Madison, Wis. (5524)

1466. A Study of Enzyme Changes in Blood Hemolysates in Various Disease States.

John F. Morrissey, M.D., Staff Member; Madison, Wis. (5525)

1467. The Serum Tyrosine Transaminase.

John F. Morrissey, M.D., Staff Member, VAH; Alfred H. Methfessel, M.S., Proj. Asst. Univ. of Wisconsin; Madison, Wis. (5526)

1468. A Study of the Value of Serum Enzyme Levels in the Differential Diagnosis of Liver Disease.

John F. Morrissey, M.D., Staff Member, VAH; Alfred H. Methfessel, M.S., Proj. Asst., Univ. of Wisconsin; Madison, Wis. (5527)

1469. The Value of the Determination of Serum Enzymes in the Diagnosis of Toxemia in Pregnancy.

Ben M. Peckham, M.D., Prof. Obstet. and Gyn., Univ. of Wisconsin; John F. Morrissey, M.D., Staff Member, VAH; Madison, Wis. (5542)

1470. The Early Detection of Pyrazinamide Hepatitis by Means of the Serum Transaminase.

John F. Morrissey, M.D., Staff Member, VAH; Ruth C. Rubin, B.S., Proj. Asst., Univ. of Wisconsin; Alfred H. Methfessel, M.S., Proj. Asst., Univ. of Wisconsin; Madison, Wis. (5545)

1471. The Value of the Serum Transaminase in the Detection and Management of Hypersensitivity Reactions to Para Aminosalicylic Acid and Streptomycin.

John F. Morrissey, M.D., Staff Member, VAH; Alfred H. Methfessel, M.S., Proj. Asst., Univ. of Wisconsin; Madison, Wis. (5559)

1472. Determination of Blood Volume in Patients Undergoing Extensive Lung Surgery.

Frank C. Larson, M.D., Act. Dir., RI Unit; John T. Mendenhall, M.D., Ch. Surg. Serv., VAH; David Norgard, B.S., Proj. Asst., Univ. of Wisconsin; Madison, Wis. (5582)

1473. Enzymatic Synthesis of Fatty Acids.

John W. Porter, Ph. D., Prin. Scient., RI Unit, VAH; Robert W. Long, B.S., Proj. Asst., Univ. of Wisconsin; Edward Steberl, M.S., Proj. Asst., Univ. of Wisconsin; Gertrude Wasson, B.S., Phys. Science Aide, RI Unit, VAH; Madison, Wis. (5583)

1474. Enzymatic Synthesis of Sterols.

John W. Porter, Ph. D., Prin. Scien., RI Unit, VAH; Lloyd A. Witting, Ph. D., Proj. Assoc., Univ. of Wisconsin; Harold J. Knauss, B.S., Graduate Research Asst., Univ. of Wisconsin; Jonathin Brodie, B.S., Graduate Research Asst., Univ. of Wisconsin; Madison, Wis. (5584)

1475. Enzymatic Synthesis of Colorless Polyenes and Carotenes.

John W. Porter, Ph. D., Prin. Scien., RI Unit, VAH; D. G. Anderson, Ph. D., Proj. Asst., Univ. of Wisconsin; Madison, Wis. (5585)

1476. A Study of Adenosine Deaminase in Pulmonary Disease.

John F. Morrissey, M.D., Staff Member, VAH; Alfred H. Methfessel, M.S., Proj. Asst., Univ. of Wisconsin; Madison, Wis. (10418)

1477. Side-effects Noted in Treatment with Methylprednisolone (Medrol)—Report of Seventy-seven Consecutive Cases.

F. Gilbert McMahon, M.D., Staff Phys., VAH; Edgar S. Gordon, M.D., Prof. Med. Univ. of Wisconsin; Madison, Wis. (10419)

1478. Effect of Hexadecadrol on Tubular and Glomerular Function.

F. Gilbert McMahon, M.D., Staff Member; Madison, Wis. (10420)

1479. Asymptomatic Gastric Retention in Diabetics (Gastroparesis Diabeticorum).

Paul Kassander, M.D., Ch. Med. Serv.; George D. Krasner, M.D., Ch. Radiol. Serv.; Manchester, N.H. (5590)

1480. Thyroxine Analogues.

Hans G. Bauer, M.D., Phys. Med. Serv.; T. H. McGavack, M.D., Ch. Intermed. Serv.; Leon Swell, Ph. D., Ch. Biochem. Med. Research; A. F. Abt, M.D., Ch. RI Serv.; Martinsburg, W. Va. (5885)

1481. Steroid Analyses (Triamcinolone).

T. H. McGavack, M.D., Ch. Intermed. Serv.; Hans G. Bauer, M.D., Phys. Med. Serv.; Dorothy A. Leake, M.D., Phys. Med. Serv.; Hans E. Berger, M.D., Phys. Med. Serv.; Kung-Ying T. Kao, M.D., Ph. D., Biochem. Intermed. Serv.; R. G. Gottschalk, M.D., Ch. Clin. Lab. Serv.; Martinsburg, W. Va. (5887)

1482. Quantitation, Nutritional and Metabolic Variables During Aging.

Thomas H. McGavack, M.D., Ch. Intermed. Serv.; Hans G. Bauer, M.D., Phys. Intermed. Serv.; Hans E. Berger, M.D., Phys. Intermed. Serv.; Dorothy A. Leake, M.D., Phys. Intermed. Serv.; Kung-Ying Tang Kao, M.D., Ph. D., Ch. Biochem.; Sally A. Hendricks, Biochem.; Martinsburg, W. Va. (5890)

1483. "Anabolic" Hormones.

Hans G. Bauer, M.D., Phys. Med. Serv.; Thomas H. McGavack, M.D., Ch. Intermed. Serv.; Kung-Ying T. Kao, M.D., Ph. D., Biochem. Intermed. Serv.; Sally A. Hendricks, B.S., Chem. Intermed. Serv.; Martinsburg, W. Va. (5891)

1484. Steroid Determinations on the Urine of Aging Subjects.

Eleanor B. Sisler, B.S., Biochem., Geriatrics Research Lab.; William R. Smith, B.S., Biochem., Geriatrics Research Lab.; Kung-Ying Tang Kao, M.D., Ph. D., Ch. Biochem., Geriatrics Research Lab.; Thomas H. McGavack, M.D., Ch. Intermed. Serv.; Martinsburg, W. Va. (10813)

1485. Critical Comparison of Adrenocortical Steroids.

Thomas H. McGavack, M.D., Ch. Intermed. Serv.; Hans E. Berger, M.D., Phys. Intermed. Serv.; Eleanor B. Sisler, M.S., Biochem., Geriatrics Research Lab.; Martinsburg, W. Va. (10815)

1486. Insulin-Containing Suppositories.

Frank S. Schlenker, Ph. D., Dir. Biochem. Research Sect., Med. Research Lab.; Memphis, Tenn. (5996)

1487. Corticoid Excretion of Adrenals after Hypophysectomy.

Charles D. Scheibert, M.D., Ch. Neurosurg. Sect.; Matthew Presti, M.D., Asst. Ch. Neurosurg. Sect.; Frank S. Schlenker, Ph. D., Dir. Biochem. Research Sect., Med. Research Lab.; Memphis Tenn. (6007)

1488. An Evaluation of Chloroquine Phosphate in the Treatment of Patients with Rheumatoid Arthritis.

Aaron M. Lefkovits, M.D., Ch. Gen. Med. and Rheumat. Sect.; Memphis, Tenn. (6019)

1489. Porphobilinogen and Delta-Aminolevulinic Acid, Biochemistry and Urinary Content.

Frank S. Schlenker, Ph. D., Dir. Biochem. Research Sect., Med. Research Lab.; Memphis, Tenn. (6023)

1490. Porphyrias.

Frank S. Schlenker, Ph. D., Dir. Biochem. Research Sect., Med. Research Lab.; Memphis, Tenn. (6024)

1491. Studies with Insulin-I^{131}. Fate in Animals.

Norman D. Lee, Ph. D., Prin. Scien., RI Serv.; Memphis, Tenn. (6132)

1492. Studies with Insulin-I^{131}. Physicochemical Properties.

Norman D. Lee, Ph. D., Prin. Scien., RI Serv.; Memphis, Tenn. (6133)

1493. Studies with Human Insulin Labeled with I^{131}.

Charles A. Rosenberg, M.D., Ch. RI Serv.; Norman D. Lee, Ph. D., Prin. Scien. RI Serv.; Memphis, Tenn. (6136)

1494. Adrenal Hormone Output as Influenced by Rate of Blood Flow.

Frank S. Schlenker, Ph. D., Dir. Biochem. Research Sect.; Med. Research Lab.; Memphis, Tenn. (9020)

1495. Familial Wilson's Disease.

Aaron M. Lefkovits, M.D., Ch. Gen. Med. Rheum. Sect., Frank S. Schlenker, Ph. D., Dir. Biochem. Research Sect., Med. Research Lab.; Memphis, Tenn. (10475)

1496. Studies on the Reproducibility of the Thyroid Suppression and Stimulation Tests with I^{131}.

Norman D. Lee, Ph. D., Prin. Scien., RI Serv.; Memphis, Tenn. (10809)

1497. Studies with Insulin-I^{131}. Binding to Liver Cytostructural Elements.

Norman D. Lee, Ph. D., Prin. Scien. RI Serv.; Ralph Wiseman, Jr., M.S., Biochem. RI Serv.; Memphis, Tenn. (10499)

1498. Metabolism of Corticosteroids.

Richard P. Doe, M.D., Ch. Chem. Sect.; Edmund B. Flink, M.D., Ph. D., Ch Med. Serv.; Wilbert J. Henke, M.D., Resident, Med. Serv.; Ruth M. Engst, B.S., Research Med. Tech.; Minneapolis, Minn. (6159)

1499. The Effect of Alcohol Intake on Magnesium Content of Rat Tissues.

Edmund B. Flink, M.D., Ph. D., Ch. Med. Serv.; Mary Goepfert, M.D., Phys. Med. Serv., VAH; Mary D. Lewis, B.S., Jr. Scient., Univ. of Minnesota; Richard Rowe, B.S., Med. Tech., Univ. of Minnesota; Minneapolis, Minn. (6164)

1500. Seasonal Variation of Plasma and Urinary Corticoid Levels and Uropepsin in Peptic Ulcer Patients.

Richard P. Doe, M.D., Ch. Chem. Sect.; Jack A. Vennes, M.D., Cons. VAH, Inst. Med., Univ. Minnesota; Edmund B. Flink, M.D., Ph. D., Ch. Med. Serv.; Minneapolis, Minn. (6172)

1501. Method for Determination of Conjugated 17-hydroxycorticoids in Plasma.

Richard P. Doe, M.D., Ch. Chem. Sect.; Ruth M. Engst, B.S., Research Med. Tech.; Minneapolis, Minn. (6176)

1502. Effect of Alcohol on Adrenal, Pituitary, and Renal Function.

Richard P. Doe, M.D., Ch. Chem. Sect.; Edmund B. Flink, M.D., Ph. D., Ch. Med. Serv.; Ruth M. Engst, B.S., Research Med. Tech.; Minneapolis, Minn. (6177)

1503. Diurnal Variation of 17-hydroxycorticoids in Hearth Failure and Cirrhosis.

Richard P. Doe, M.D., Ch. Chem. Sect., VAH; Rafael F. Fernandez, M.D., Fellow Med., Univ. Minnesota; Edmund B. Flink, M.D., Ph. D., Ch. Med. Serv., VAH; Ruth M. Engst, B.S., Research Med. Tech.; Minneapolis, Minn. (6178)

1504. Magnesium Balance Studies in Chronic Alcoholism with Tremulousness and Other Conditions.

Edmund B. Flink, M.D., Ph. D., Ch. Med. Serv.; Robert J. McCollister, M.D., Resident, Med. Serv., VAH; Mary D. Lewis, B.S., Jr. Scien., Univ. Minnesota; Minneapolis, Minn. (6179)

1505. Free Amino Acids in the Plasma and Urine of Patients.

Horace H. Zinneman, M.D., Ch. Blood Transfusion Sect.; Minneapolis, Minn. (6184)

1506. The Effect of the Antidiuretic Hormone (ADH) and Adrenal Cortical Steroids in Abnormal Water Retention.

Carl S. Alexander, M.D., Clin. Invest.; Minneapolis, Minn. (6187)

1507. Study of Variations in Urinary Aldosterone Levels in Normal and Diseased States.

Thaddeus Chao, M.D., Staff Phys., Med. Serv.; Richard P. Doe, M.D., Ch. Chem. Sect.; Minneapolis, Minn. (6188)

1508. Observations on an Intravenous Glucose Tolerance Test.

Thaddeus Chao, M.D., Staff Phys. Med. Serv.; Donald F. Gleason, M.D., Ch. Path. Sect.; Minneapolis, Minn. (6192)

1509. Protein Binding of Corticosteroids.

Richard P. Doe, M.D., Ch. Chem. Sect.; Horace H. Zinneman, M.D., Ch. Blood Bank; Edmund B. Flink, M.D., Ph. D., Ch. Med. Serv.; Minneapolis, Minn. (6195)

1510. Renal Clearance of Amylase During Acute Pancreatitis.

Robert O. Mulhausen, M.D., Resident, Med. Serv.; Leslie Zieve, M.D., Ch. RI Serv.; Minneapolis, Minn. (6311)

1511. Hemolysis in Experimental Pancreatitis. Relationship to Lipemia.

Leslie Zieve, M.D., Ph. D., Ch. RI Serv.; William C. Vogel, M.S., Clin. Biochem., RI Serv.; William D. Kelly, M.D., Ph. D., Dir. Lab. Exper. Surg.; Minneapolis, Minn. (6312)

1512. The Organ Distribution of Fat Infused Into Rats.

Leslie Zieve, M.D., Ch. RI Serv.; Carl S. Alexander, M.D., Clin. Invest.; Minneapolis, Minn. (6314)

1513. The Use of Rubidium for Measurement of Total Body Potassium in Man and Animals With Hypokaliemia.

Robert W. Geist, M.D., Resident, Urol. Sect.; Julian S. Ansell, M.D., Ch. Urol. Sect.; Minneapolis, Minn. (6321)

1514. The Effect of Large Intravenous Doses of Acetazolamide on the Renal Excretion of Electrolytes.

George B. Gordon, M.D., Phys. RI Serv.; Alfred Eichenholz, M.D., Asst. Ch. Pulm. Disease Serv.; Minneapolis, Minn. (6322)

1515. The Urinary Excretion Patterns in Man Utilizing the Technique of Stopped Flow Analysis.

George B. Gordon, M.D., Phys. RI Serv.; Julian S. Ansell, M.D., Ch. Urol. Sect.; Minneapolis, Minn. (6323)

1516. Micromethod for Routine Determination of Lysolecithin and Lecithin in Body Fluids.

William C. Vogel, M.S., Clin. Biochem. RI Serv.; Leslie Zieve, M.D., Ch. RI Serv.; Minneapolis, Minn. (6329)

1517. Prognostic Value of Thyroid Function Tests Following Treatment of Hyperthyroidism.

Leslie Zieve, M.D., Ph. D., Ch. RI Serv.; James L. Brown, M.D., Phys. RI. Serv.; Minneapolis, Minn. (6330)

1518. Amino Acid Excretion Patterns in Dubin-Johnson Syndrome.

Leslie Zieve, M.D., Ph. D., Ch. RI Serv.; Richard O. Carleton, B.S., Biochem., RI Serv.; Minneapolis, Minn. (6332)

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1519. The Energy and Material Balance of Patients with Anuria or Oliguria and of Nephrectomized Rats.

George B. Gordon, M.D., Phys., RI Serv.; Minneapolis, Minn. (6333)

1520. The Response of Normal and Diabetes Insipidus Patients to Nicotine Pitressin and Hypertonic Saline.

Carl S. Alexander, M.D., Clin. Invest.; Minneapolis, Minn. (8906)

1521. The Effect of Intravenous Chlorothiazide on the Urinary Concentrating Mechanism in Diabetes Insipidus.

George B. Gordon, M.D., Phys. RI Serv.; Carl S. Alexander, M.D., Clin. Invest.; Minneapolis, Minn. (9791)

1522. The Effect of Acute Reduction of Intra-Abdominal Pressure on Renal Hemodynamics in Patients With Cirrhosis of the Liver and Severe Ascites.

Carl S. Alexander, M.D., Clin. Invest.; George B. Gordon, M.D., Phys. RI Serv.; Minneapolis, Minn. (9792)

1523. Effect of Ca and Rb in Restoring Normal Urinary Concentration K^+ Deficient Rats.

George B. Gordon, M.D., Phys. RI Serv.; Carl S. Alexander, M.D., Clin. Invest.; Minneapolis, Minn. (9793)

1524. Failure of Intravenous Hyaluronidase to Alter Urinary Osmolality in a Patient With Nephrogenic Diabetes Insipidus.

Carl S. Alexander, M.D., Clin. Invest.; George B. Gordon, M.D., Phys. RI Serv.; Minneapolis, Minn. (9794)

1525. Amino Acid Synthesis. A Possible New Route to DL-Dipecolic Acid and DL-Proline.

Herbert T. Nagasawa, Ph. D., Biochem. RI Serv.; Frances R. Kowitt, M.S., Jr. Chem. RI Serv.; Minneapolis, Minn. (9808)

1526. Metabolism of Serotonin in Schizophrenia.

Henry A. Johnson, Jr., M.D., Staff Phys. Psychiat. Sec.; Werner Simon, M.D., Ch. Psychiat. and Neur. Serv.; Minneapolis, Minn. (9809)

1527. Study of Acid Base Balance in Chronic Alcoholism.

Alfred Eichenholz, M.D., Asst. Ch. Pulm. Dis. Serv.; William E. Anderson, M.D., Asst. Ch. Med. Serv.; Minneapolis, Minn. (9810)

1528. Factors Affecting Diffusible Calcium in Serum.

Ananda S. Prasad, M.D., Ph. D., Instr. Med., Univ. of Minnesota; Edmund B. Flink, M.D., Ph. D., Ch. Med. Serv., VAH; Minneapolis, Minn. (9811)

1529. Shunt Myelopathy.

Leslie Zieve, M.D., Ch. RI Serv.; David F. Mendelson, M.D., Cons. Neur. Serv., VAH, Instr. in Neur., Univ. of Minnesota; Mary Goepfert, M.D., Staff Phys. Med. Serv., VAH; Minneapolis, Minn. (9812)

1530. Control of Cholesterol Atherosclerosis in the Rabbit by Elimination of Pancreatic Enzyme from the Bowel.

Yshio Sako, M.D., Ph. D., Asst. Ch. Surg. Serv.; Minneapolis, Minn. (9813)

1531. "Running Start" Chromatography.

Leslie Zieve, M.D., Ch. RI Serv.; William C. Vogel, M.S., Clin. Biochem., RI Serv.; Minneapolis, Minn. (9814)

1532. A Method for Measuring Lecithinase A in Biological Fluids.

William C. Vogel, M.S., Clin. Biochem., RI Serv.; Leslie Zieve, M.D., Ch. RI Serv.; Minneapolis, Minn. (9815)

1533. A Method for Measuring Lecithinase A in Biological Fluids.

William C. Vogel, M.S., Clin. Biochem., RI Serv.; Leslie Zieve, M.D., Ch. RI Serv.; Minneapolis, Minn. (9815)

1534. The Effect of Hypertonic Saline Infusions, With and Without Carbonic Anhydrase Inhibition, on Renal Bicarbonate Reabsorption.

George B. Gordon, M.D., Phys., RI Serv.; Alfred Eichenholz, M.D., Asst. Ch. Pulm. Disease Serv; Frank M. MacDonald, M.D., Ch. Pulm. Disease Serv.; Thomas T. Semba, M D., Resident Path., Lab. Serv.; Minneapolis, Minn. (9816)

1535. The Mechanism of Enhanced Bicarbonate Reabsorption in Patients with Pulmonary Emphysema.

George B. Gordon, M.D., Phys. RI Serv; Alfred Eichenholz, M.D., Asst. Ch. Pulm. Disease Serv.; Minneapolis, Minn. (9817)

1536. Determination of Urine Bilirubin.

George B. Gordon, M.D., Phys. RI Serv.; Minneapolis, Minn. (9818).

1537. Alterations in Bicarbonate Reabsorption and Phosphate Excretion in a Case of Primary Aldosteronism.

George B. Gordon, M.D., Phys. RI Serv.; Alfred Eichenholz, M.D., Asst. Ch. Pulm. Disease Serv.; Minneapolis, Minn. (9819)

1538. Mitosis With Special Reference to Action of Colchicine.

Walter Fleischmann, M.D., Ph. D., Ch. Lab. Serv.; Olive Q. Russell, Histopath.; Mountain Home, Tenn. (5336)

1539. Wound Healing and Wound Tension.

H. H. Shoulders, Jr., M.D., Asst. Ch. Surg. Serv.; Nashville, Tenn. (5348)

1540. The Effects of Hypophysectomy on Serum Sulfation Factor in the Dog.

H. H. Shoulders, Jr., M.D., Asst. Ch. Surg.; W. D. Salmon, Jr., M.D., Asst. Ch. Med. Serv.; Nashville, Tenn. (5396)

1541. The Effects of Dog Serum Upon Growth and Metabolism of 'L' Cell Fibroblasts in Tissue Culture.

H. H. Shoulders, Jr., M.D., Asst. Ch. Surg.; Nashville, Tenn. (5397)

1542. Action of Growth Hormone on Chondroitin Sulfate Synthesis by Cartilage of Alloxan-Diabetic, Hypophysectomized Rats.

W. D. Salmon, Jr., M.D., Asst. Ch. Med. Serv.; Nashville, Tenn. (5403)

1543. Assay of Serum Sulfation Factor in Clinical Disorders of Pituitary Function in Man.

W. H. Daughaday, M.D., Assoc. Prof. Med., Washington Univ. Sch. of Med., St Louis, Mo.; W. D. Salmon, Jr., M.D., Asst. Ch. Med. Serv., VAH, Nashville, Tenn.; F. Alexander, M.D., Fellow Med., Washington Univ., St Louis, Mo. (5404)

1544. Hormonal Effects on Synthesis of Chondroitin Sulfate by Cartilage and Other Tissues.

W. D. Salmon, Jr., M.D., Asst. Ch. Med. Serv.; Nashville, Tenn. (5408)

1545. Localization of the Serum Growth Promoting Factor.

H. H. Shoulders, Jr., M.D., Asst. Ch. Surg. Serv.; David M. Regen, Tech., RI Serv.; Nashville, Tenn. (9961)

1546. The Effect of Serum From Diabetic and Hypophysectomized Rats and of Insulin on Fibroblasts in Tissue Culture.

H. H. Shoulders, Jr., M.D., Asst. Ch. Surg. Serv.; David M. Regen, Tech., RI Serv.; Nashville, Tenn. (9962)

1547. Deficiency of Wound Healing in the Cirrhotic Rat.

H. H. Shoulders, Jr., M. D., Asst. Ch. Surg. Serv.; R. I. Carlson, M.D., Ch. Surg.; Nashville, Tenn. (9963)

1548. Study of Alcohol Tolerance Curves in Normal Individuals and in Patients With Cirrhosis of the Liver.

Philip Lipton, M.D., Ch. Med. Serv.; Olga T. Yeranian, M.Sc., Biochem., Research Serv.; Burton C. Deane, M.Sc., Ch. Research Serv.; Newington, Conn. (6339)

1549. A Study of Daquin as a Diuretic and Its Effects on Urinary and Serum Sodium and Potassium.

Philip Lipton, M.D., Ch. Med. Serv.; Burton C. Deane, M. Sc., Research Biochem.; Newington, Conn. (6340)

1550. An Investigation of the Unsaturated Fatty Acids in Blood and Tissues.

Andre C. Kibrick, Ph. D., Ch. Biochem. Sec.; Solomon J. Skupp, M.S., Biochem., Research Lab.; New York, N.Y. (6486)

1551. Study of the Effects of Chlorpromazine on Blood Lipids in Cholesterol-Fed Rabbits.

Sigmund L. Wilens, M.D., Ch. Lab. Serv.; New York, N.Y. (6498)

1552. Study of Development and Regression of Aural Xanthomata in Cholesterol Fed Rabbits.

Sigmund L. Wilens, M.D., Ch. Lab. Serv.; New York, N.Y. (6499)

1553. The Determination of Biologically Inactive Catechols in Blood and Urine, as an Index of Sympathetic Activity.

Alfred A. Smith, M.D., Resident, Intern. Med., VAH; S. Bernard Wortis, M.D., Ch. Dept. Psychiat. and Neur., New York Univ. Coll. of Med.; Jack W. Schweitzer, M.S., Chem., New York Univ.-Bellevue Med. Center; New York, N.Y. (6501)

1554. Factors Regulating Albumin Production.

M. A. Rothschild, M.D., Ch. RI Serv.; M. Oratz, Ph. D., Asst. Ch. RI Serv.; S. S. Schreiber, M.D., Attend. Intern., RI Serv.; H. L. McGee, Chem. (Gen.), RI Serv.; New York, N.Y. (6563)

1555. Investigation of the Antigenic Properties of Human Chorionic Gonadotrophin.

George J. Bertero, M.D., Resident Med. Serv.; New York, N.Y. (8718)

1556. An Investigation of the Significance of the Oxidized Polyethanoid Fatty Acids in Man and Animals.

Andre C. Kibrick, Ph. D., Ch. Biochem. Sect. Lab. Serv.; New York, N.Y. (11014)

1557. Evaluation of the Ryprogen Complement Fixation Test for Syphilis.

Clarise H. Illes, B.A., Ch. Serol. Sect.; Michael Kenney, M.D., Asst. Ch. Lab. Serv.; New York, N.Y. (11015)

1558. Investigation of Specific Autoantibodies in the Sera of Patients Dying of Various Disease States.

Jesus M. Vazquez, M.D., Resident, Lab. Serv.; Clarise H. Illes, B.A., Ch. Serol. Sec., Lab. Serv.: Guido J. Rio, M.S., Bact. (Med) Research Lab.; New York, N.Y. (11016)

1559. A Proposed Investigation of High and Low Caloric Diets for Mentally Ill Hospitalized Patients.

Irving J. Blumenthal, M.D., Phys.; Sue A. McCann, R.N., Head Nurse; Norman Berk, Ph. D., Clin. Psychol.; Louis Lauro, M.A., Clin. Psychol. Tr.; Northport, N.Y. (8712)

1560. The Pathology of Essential Fatty Acid Deficiency.

Bruno Gerstl, M.D., Ch. Lab. Serv.; James K. Smith, M.D., Ch., Psychiat. and Nuer. Serv.; Livia Ross, M.D., Path. Lab. Serv.; Oakland, Calif. (6645)

1561. Nutritional and Other Metabolic Factors Governing Magnesium.

Leonard P. Eliel, M.D., Dir., Okla. Med. Research Foundation; William O. Smith, M.D., Asst. Ch. RI Serv., VAH; Oklahoma City, Okla. (6843)

1562. Studies of Magnesium Metabolism in Hypoparathyroidism.

Leonard P. Eliel, M.D., Dir., Oklahoma Med. Research Found.; William O. Smith, M.D., Asst. Dir. RI Serv.; Oklahoma City, Okla. (6844)

1563. Studies of Magnesium in Disease States.

James F. Hammarsten, M.D., Ch. Med. Serv.; William O. Smith, M.D., Asst. Ch. RI Serv.; Oklahoma City, Okla. (6850)

1564. To Determine the Amount of Oral 9-Alpha-Fluoropred nesilone Necessary to Suppress Normal Adrenal Function.

Kelly M. West, M.D., Staff Phys.; W. Julien Bahr, M.D., Resident Phys.; Philip C. Johnson, MD.; Ch. RI Serv.; Henry R. Lee, Tech.; Oklahoma City, Okla. (6851)

1565. Lipid Clearance in Diabetic Subjects.

Carl W. Smith, Jr., M.D., Clin. Asst; Kelly M. West, M.D., Staff Phys.; Daniel R. Patrick, Tech.; Keith Klopfenstein, M.D., Resident Phys.; Philip C. Johnson, M.D., Ch. RI Serv.; Oklahoma City, Okla. (6854)

1566. An Investigation of the Hypoglycemia Action of Chlorpropamide.

Stanley R. McCampbell, M.D., Attend. Phys.; Kelly M. West, M.D., Staff Phys.; Carmen E. Bloedow, M.D., Resident Phys.; Oklahoma City, Okla. (6891)

1567. An Investigation of the Possible Action of an Ataractic Drug (SKF 5354) on the Adenohypophysis and Adrenal Cortex.

Mervin L. Clark, M.D., Cons. Phys.; Philip C. Johnson, M.D., Ch. RI Serv.; Carl W. Smith, Jr., M.D., Clin. Asst.; Carl Thomsen, M.D., Resident Phys.; Oklahoma City, Okla. (6898)

1568. The Preliminary Survey of an Antihistamine Compound.

David C. Mock, Jr., M.D., Clin Asst.; Stanley R. McCampbell, M.D., Attend. Phys., VAH, Clin. Asst. Med., Oklahoma Univ.; Oklahoma, City, Okla. (6910)

1569. The Effect of I^{131} Ablation of the Thyroid in Far Advanced Diabetes Mellitus.

William O. Smith, M.D., Asst. Ch. RI Serv.; Kelly M. West, M.D., Staff Phys.; Oklahoma City, Okla. (6931)

1570. Measurement of Intrinsic Factor Activity of Fractions of Whole Gastric Juice Separated by Resin Column Techniques.

Philip C. Johnson, M.D., Ch. RI Serv.; Jane B. Faulkner, Tech.; Theda B. Driscoll, Tech.; Betty Carroll, Tech.; Oklahoma City, Okla. (6938)

1571. Absorption of Vitamin B–12 in an Isolated Jejunal Loop oft he Monkey.

Philip C. Johnson, M.D., Ch. RI Serv.; Theda B. Driscoll, Tech.; Thomas O. Hodges, M.D., Asst. Ch. Surg. Serv.; Vernon H. Belindo, Tech.; Oklahoma City, Okla. (6950)

1572. Studies of Manganese Metabolism.

Donald J. Baxter, Tech.; William O. Smith, M.D., Asst. Ch. RI Serv.; Oklahoma City, Okla. (10001)

1573. Comparative Effect of Insulin and Chlorpropamide on Utilization of Carbon-14 Glucose in Stable Diabetic Subjects.

Allen R. Hennes, M.D., Asst. Ch. Med. Serv.; Philip C. Johnson, M.D., Ch. RI Serv.; Kelly M. West, M.D., Staff Phys.; Tommy W. Redding, Tech.; Vernon Belindo, Tech.; Oklahoma City, Okla. (10002)

1574. The Intravenous Glucose Tolerance Test.

Kelly M. West, M.D., Staff Phys.; Dorothy A. Wood, Tech.; Oklahoma City, Okla. (10004)

1575. The Response of the Blood Glucose to Glucocorticoids in Man.

Kelly M. West, M.D., Staff Phys.; Oklahoma City, Okla. (10005)

1576. The Response of the Blood Glucose to Glucocorticoids in Man: Determination of the Hyperglycemic Potencies of Glucocorticoids.

Kelly M. West, M.D., Staff Phys.; Oklahoma City, Okla. (10006)

1577. Evaluation of Antihistaminic Agents Using a Pollen-Room Technique.

David C. Mock, M.D., Dir., Exper. Therapeutic Lab.; Stewart G. Wolf, M.D., Cons. Phys.; Oklahoma City, Okla. (10007)

1578. Effect of Liver Disease on the Hypoglycemic Action of Chlorpropamide and Tolbutamide.

Walter L. Honska, M.D., Ch. Med. Resident Phys.; Allen R. Hennes, M.D., Asst. Ch. Med. Serv.; Philip C. Johnson, M.D., Ch. RI Serv.; Daniel R. Patrick, Tech.; Dorothy A. Wood, Tech.; Oklahoma City, Okla. (10008)

1579. The Physiologic Effect of Dexamethasone.

Kelly M. West, M.D., Staff Phys.; Philip C. Johnson, M.D., Ch. RI Serv.; Adrian A. Kyriakopoulos, M.D., Resident Fellow; Oklahoma City, Okla. (10009)

1580. The Relative Potencies of Chlorpropamide and Tolbutamide in Man.

Kelly M. West, M.D., Staff Phys.; Stanley R. McCampbell, M.D., Attend. Phys.; Oklahoma City, Okla. (10010)

1581. The Use of SU-4885 in Evaluation of Pituitary Function.

W. Julien Bahr, M.D., Resident Phys.; Philip C. Johnson, M.D., Ch. RI Serv.; Henry R. Lee, Tech.; Oklahoma City, Okla. (10011)

1582. Measure of Distribution Space of Chlorpropamide Labeled With Sulphur^{35}.

Philip C. Johnson, M.D., Ch. RI Serv.; Daniel R. Patrick, Tech.; H. Ronald Lee, Tech.; Theda B. Driscoll, Tech.; Allen R. Hennes, M.D., Asst. Ch. Med. Serv.; Oklahoma City, Okla. (10012)

1583. Clinical Evaluation of Intramuscular Nor Androstenolone Phenyl Propionate in Malnourished Post-Menopausal Females.

Philip C. Johnson, M.D., Ch. RI Serv.; Carl W. Smith, M.D., Clin. Asst.; Mervin E. Clark, M.D., Cons. Phys.; Oklahoma City, Okla. (10013)

1584. The Comparative Pharmacology of Tolbutamide, Carbutamide, Chlorpropamide and Metahexamide in Man.

Kelly M. West, M.D., Staff Phys.; Philip C. Johnson, M.D., Ch. RI Serv.; Oklahoma City, Okla. (10014)

1585. The Effect of Acidosis and Alkalosis on Magnesium Metabolism in Dogs.

William O. Smith, M.D., Asst. Ch. RI Serv.; Earl Ginn, M.D., Resident Phys.; David D. Snyder, M.D., Resident Phys.; Oklahoma City, Okla. (10015)

1586. Plasma Clearance of Intravenous Injected Triglycerides in Thyrotoxicosis and in Myxedema.

Philip C. Johnson, M.D., Ch. RI Serv.; Carl W. Smith, Jr., M.D., Clin. Asst.; Howard Guiles, Tech.; Daniel R. Patrick, Tech.; Oklahoma City, Okla. (10016)

1587. Magnesium ^{28} Metabolism Before and After Liver Damage in the Rat.

J. W. H. Smith, M.D., Cons. Phys.; William O. Smith, M.D., Asst. Ch. RI Serv., VAH; M. Jack Keyl, M.D., Asst. Prof. Phys., Oklahoma Univ. Med. Sch.; C. G. Gunn, M.D., Attend. Phys.; Oklahoma City, Okla. (10313)

1588. The Role of the Krebs Ornithine Cycle in Hepatic Disease.

J. M. Holthaus, M.D., Ch. Med. Serv.; A. J. Barak, Ph. D., Biochem.; F. L. Humoller, Ph. D., Prin. Scient.; Omaha, Nebr. (6710)

1589. Study of Antigen-Antibody Complex in Human and Guinea-pig Sera Under Treatment with Alum Precipitated Antigens.

Reginald A. MacHaffie, M.D., Phys. Med. Serv.; Anthony J. Barak, Ph. D., Biochem.; Omaha, Nebr. (6711)

1590. A Study of Cholesterol Metabolism.

Herbert P. Jacobi, Ph. D., Chm. Dept. Biochem., Univ. Nebraska; Arthur L. Dunn, Ph. D., Asst. Ch. Scien. RI Serv.; Omaha, Nebr. (6764)

1591. The Role of Glycolysis in Fatty Acid Synthesis.

Arthur L. Dunn, Ph. D., Asst. Ch. Scientific RI Serv., VAH; Herbert P. Jacobi, Ph. D., Chm. Dept. Biochem., Univ. Nebraska; Paul A. Jewett, Grad. Stud. Dept. Med., Univ. Nebraska; Omaha, Nebr. (6765)

1592. The Role of Glycolysis in Cholesterol Synthesis.

Arthur L. Dunn, Ph. D., Asst. Ch. Scientific RI Serv., VAH; Herbert P. Jacobi, Ph. D., Chm. Dept. Biochem., Univ. Nebraska; David L. Kutsch, B.S., Grad. Stud. Dept. Biochem., Univ. Nebraska; Omaha, Nebr. (6766)

1593. The Investigation of Lipid Metabolism in Athyrotic Rabbits.

Herbert P. Jacobi, Ph. D., Chm. Dept. Biochem., Univ. Nebraska Coll. of Med.; H. Martin Blacker, M.S., Grad. Stud. Dept. Biochem., Univ. of Nebraska Coll. of Med.; William Burgin, Jr., B.S., Phys. Science Tech., VAH; Richard E. Ogborn, M.D., Ch. RI Serv.; Arthur L. Dunn, Ph. D., Asst. Ch. Scien. RI Serv.; Omaha, Nebr. (6767)

1594. A Study of Various Dietary and Physiological States on Serum Lipoprotein Patterns and Cholesterol Levels in Rabbits.

Arthur L. Dunn, Ph. D., Asst. Ch. Scien. RI Serv.; H. Martin Blacker, M.S., Grad. Stud. Biochem. Dept., Univ. of Nebraska Coll. of Med.; Herbert P. Jacobi, Ph. D., Chm. Biochem. Dept., Univ. of Nebraska Coll. of Med.; Omaha, Nebr. (6768)

1595. Range of Thyroid Uptake of Radioactive Iodine in a Population of Normal Veterans.

Richard E. Ogborn, M.D., Ch. RI Serv.; Arthur L. Dunn, Ph. D., Asst. Ch. Scien. RI Serv.; Omaha, Nebr. (6784)

1596. Rates of Absorption of Mixtures and Compounds of Sodium Iodide and Triolein.

Richard E. Ogborn, M.D., Ch. RI Serv.; Arthur L. Dunn, Ph. D., Asst. Ch. Scien. RI Serv.; Omaha, Nebr. (6791)

1597. Ornithine Transcarbamylase Activity in Liver Diseases.

Anthony J. Barak, Ph. D., Biochem.; Joseph M. Holthaus, M.D., Ch. Med. Serv.; Fred L. Humoller, Ph. D., Prin. Scien.; Lucille Menebroker, B.S., Biochem.; Omaha, Nebr. (10218)

1598. Evaluation of Blood Citrulline Determination as a Diagnostic Aid in Cirrhosis.

Anthony J. Barak, Ph. D., Biochem.; Joseph M. Holthaus, M.D., Ch. Med. Serv.; Fred L. Humoller, Ph. D., Prin. Scien.; Lucille Menebroker, B.S., Biochem.; Omaha, Nebr. (10219)

1599. Radioactive I-131 Uptake by the Thyroid of Normal Newborn Infants.

Richard E. Ogborn, M.D., Ch. RI Serv., VAH; Ronald E. Waggener, M.D., Asst. Prof. Radiol., Univ. Nebraska Coll. Med.; Eugene Van Hove, M.D., Dept. Med., Univ. Nebraska Coll. Med.; Omaha, Nebr. (10220)

1600. Arginine-Glutamate as a Therapeutic Measure to Combat Ammoniagenic Coma.

Anthony J. Barak, Ph. D., Biochem.; Joseph M. Holthaus, M.D., Ch. Med. Serv.; Fred L. Humoller, Ph. D., Prin. Scien.; Lucille Menebroker, B.S., Biochem.; Omaha, Nebr. (10221)

1601. Studies on Methods of Altering Serum Lipid Levels.

Leo E. Hollister, M.D., Ch. Med. Serv.; Palo Alto, Calif. (6793)

1602. Effects of 'Solvosterol' on Serum Lipid Levels.

Leo E. Hollister, M.D., Ch. Med. Serv.; Frederic S. Glazener, M.D., Asst. Ch. Med. Serv.; Palo Alto, Calif. (6794)

1603. Effect of 'Formula J', SKF, on Serum Lipid Levels.

Leo E. Hollister, M.D., Ch. Med. Serv.; Frederic S. Glazener, M.D., Asst. Ch. Med Serv.; Palo Alto, Calif. (6797)

1604. Lipemia-clearing Effects of Chlorpromazine.

Leo E. Hollister, M.D., Ch. Med. Serv.; Frederic S. Glazener, M.D., Asst Ch. Med. Serv.; Palo Alto, Calif. (8467)

1605. Lipid-mobilizing Properties of Triamcinolone.

Leo E. Hollister, M.D., Ch. Med. Serv.; Frederic S. Glazener, M.D., Asst. Ch. Med. Serv.; Palo Alto, Calif. (8468)

1606. Effects of Two Ergot Derivatives (DHO–180 and Combined Hydrogenated Ergot Alkaloids, 'Hydergine') on Serum Lipid Levels.

Leo E. Hollister, M.D., Ch. Med. Serv.; Frederic S. Glazener, M.D., Asst. Ch. Med. Serv.; Palo Alto, Calif. (8469)

1607. Effect of 1-Triiodothyronine and 1-Triiodothyroacetic Acid on Serum Lipid Levels.

Leo E. Hollister, M.D., Ch. Med. Serv.; Frederic S. Glazener, M.D., Asst. Ch. Med. Serv.; Palo Alto, Calif. (8470)

1608. Further Studies on Measures to Lower Serum Lipid Levels.

Leo E. Hollister, M.D., Ch. Med. Serv.; Robert Mowry, M.D., Ch. Cont. Treatment Serv.; John Withrow, M.D., Ward Ch.; Palo Alto, Calif. (8471)

1609. Metabolic and Clinical Effects of Dexamethasone, A New Corticosteroid.

Leo E. Hollister, M.D., Ch. Med. Serv.; Frederic S. Glazener, M.D., Ward Ch.; Palo Alto, Calif. (8472)

1610. Use of a Formula Diet and Dietary Supplements of Unsaturated Fatty Acids and Triiodothyronine as Measures to Lower Serum Lipids.

Leo E. Hollister, M.D., Ch. Med. Serv.; Frederic S. Glazener, M.D., Ward Ch.; Palo Alto, Calif. (8474)

1611. Trial of a Diphenylmethane Derivative as an Anti-Hypercholesterolemic Agent.

Leo E. Hollister, M.D., Ch. Med. Serv.; Robert S. Mowry, M.D., Ward Ch.; John A. Withrow, M.D., Ward Ch.; Palo Alto, Calif. (8475)

1612. The Effect of Stress on Inducible Enzymes.

Akira Nakao, Ph. D., Research Biochem.; Palo Alto, Calif. (8485)

1613. Effect of Triamcinolone Acetonide on Serum Lipid Levels.

Leo E. Hollister, M.D., Ch. Med. Serv.; Frederic S. Glazener, M.D., Ward Ch.; Palo Alto, Calif. (8858)

1614. Delacortisone: A Study of Some of Its Clinical Effects.

Leo E. Hollister, M.D., Ch. Med. Serv.; Frederic S. Glazener, M.D., Ward Ch.; Palo Alto, Calif. (8859)

1615. The Evaluation of the Determination of the CO_2 Combining Power.

Theodore Rodman, M.D., Staff Phys., Cardiopulm. Func. Lab.; Philadelphia, Pa. (8753)

1616. Effect of Pharmacologic Agents on Urinary 17-Hydroxy Keto Steroid Excretion.

Robert P. Arthur, M.D., Clin. Invest., VAH; Walter B. Shelley, M.D., Prof. Derm., Univ. of Pennsylvania Med Sch.; Philadelphia, Pa. (8755)

1617. Metabolic Study Using Anabolic Steroid RS–992 Manufactured By Syntex Products.

Ralph M. Myerson, M.D., Asst. Ch. Med. Serv. and Asst. Dir. Prof. Serv. Research; Philadelphia, Pa. (9934)

1618. Case Study and Review of Hypo-parathyroidism.

Howard E. Liston, M.D., Staff Phys. Med. Serv.; Bernard M. Lipschultz, M.D., Ch. Med. Serv.; Phoenix, Ariz. (10632)

1619. Metabolism of Dopamine.

Clyde M. Williams, M.D. Biochem., RI Serv.; Pittsburgh (Univ. Dr.), Pa. (11076)

1620. Studies on Uric Acid Excretion.

Thomas G. Benedek, M.D., Phys.; Pittsburgh (Univ. Dr.), Pa. (11093)

1621. Kinetics of the Reaction between *Cypridina* Luciferase and Specific Antibody.

Frederick I. Tsuji, Biochem. Gen. Med. Research; David L. Davis, Biochem. Gen. Med. Research, VAH; Raymond Sowinski, Dept. of Biophy., Univ. Pittsburgh; Pittsburgh (Univ. Dr.), Pa. (11094)

1622. Polysaccharides.

Zolton T. Wirtschafter, M.D., Asst. Dir. Prof. Serv. for Research, VAH; James K. Tsujimura, B.A., Stud., Univ. Oregon Med. Sch.; Portland, Oreg. (7148)

1623. Lathyrism.

Zolton T. Wirtschafter, M.D., Asst. Dir. Prof. Serv. for Research, VAH; James K. Tsujimura, B.A., Stud., Univ. Oregon Med. Sch.; Portland, Oreg. (7149)

1624. Geriatrics: Acid-Mucoprotein Determination of Rats at Various Ages.

Zolton T. Wirtschafter, M.D., Asst. Dir. Prof. Serv. for Research, VAH; James K. Tsujimura, Med. Stud., Univ. of Oregon Med. Sch.; Portland, Oreg. (7150)

1625. Evaluation of the Water Tolerance Test Together With Studies to Elucidate the Mechanisms of Sodium Retention in Hepatic Disease.

Stanley W. Daum, M.D., Staff Phys.; John D. Eyre, M.D., Act. Ch. Med. Serv.; Bernard J. Mulligan, Bact.; Providence, R.I. (10152)

1626. *In Vitro* TSH Assay.

Kathleen T. Hart, Ph. D., Biochem., RI Serv.; Robert E. Mack, M.D., Ch. Med. Serv.; St. Louis, Mo. (7720)

1627. Intermediary Metabolism of Iodine.

Kathleen T. Hart, Ph. D., Biochem., RI Serv.; Robert E. Mack, M.D., Ch. Med. Serv., Ch. RI Serv.; St. Louis, Mo. (9717)

1628. The Relationship of Urinary Zinc Excretion to Alcoholic Cirrhosis and to Alcohol Ingestion.

Charles J. Galbraith, M.D., Dir. Sec. Surg., St. Louis Univ.; James F. Sullivan, M.D., Staff Phys., VAH; Kathleen T. Hart, Ph. D., Biochem., RI Serv.; St. Louis, Mo. (9718)

1629. Studies of the Effects of Sleep Deprivation on Adreno-cortical Function.

Eugene L. Bliss, M.D., Attend. Psychiat., VAH, Assoc. Prof. Psychiat., Univ. of Utah; Charles D. West, M.D., Asst. Dir. Prof. Serv. for Research, VAH; Salt Lake City, Utah. (7335)

1630. 17-Hydroxycorticosteroid Metabolism in the Aged.

Harold Brown, M.D., Ch. Med. Serv., VAH; Douglas B. Carter, Tech. Student, Univ. of Utah Med. Sch.; Leon M. Neal, Tech. Student, Univ. of Utah Med. Sch.; Enos L. Simons, Biochem., VAH; Salt Lake City, Utah. (7351)

1631. Metabolism of Strontium in Subjects With Ideopathic Osteoporosis.

Stanley Wallach, M.D., Resident Phys., Med. Serv., VAH; Marvin A. VanDilla, Asst. Research Prof. of Physics, Univ. of Utah; James S. Arnold, M.D., Instr. in Anat., Univ. of Utah; Salt Lake City, Utah. (7353)

1632. The Mechanism of Hepatic Coma in Man.

Edwin Englert, Jr., M.D., Resident Phys.; Harold Brown, M.D., Asst. Ch. Med. Serv.; Salt Lake City, Utah. (7359)

1633. Levels of Free and Conjugated 17-Hydroxycorticosteroids in Body Fluids.

Harold Brown, M.D., Ch. Med. Serv.; Stanley Wallach, M.D., Resident Phys., Med. Serv.; Edwin Englert, Jr., M.D., Resident Phys., Med. Serv.; Enos L. Simons, Biochem.; Salt Lake City, Utah. (7361)

1634. The Effect of Variation of Hepatic Blood Flow on 17-Hydroxycorticosteroid Metabolism.

Edwin Englert, Jr., M.D., Asst. Ch. Med. Serv.; Harold Brown, M.D., Ch. Med. Serv.; Knox Fitzpatrick, M.D., Ch. Surg. Serv., VAH; Russell Nelson, M.D., Asst. Prof. Surg., Univ. of Utah; Salt Lake City, Utah. (7362)

1635. Effect of Experimental Hepatic Coma on Brain Content of Ammonia and Related Metabolites.

Edwin Englert, Jr., M.D., Asst. Ch. Med. Serv.; Harold Brown, M.D., Ch. Med. Serv.; Knox Fitzpatrick, M.D., Ch. Surg. Serv., VAH; Russell Nelson, M.D., Asst. Prof. Surg., Univ. of Utah; Salt Lake City, Utah. (7363)

1636. The Effect of Certain Drugs on the Serum Bilirubin Level of a Patient With Constitutional Hepatic Dysfunction.

Charles D. West, M.D., Asst. Dir. Prof. Serv. for Research; Anthony Giorgio, M.D., Resident, Med. Serv.; Salt Lake City, Utah. (7366)

1637. The Effect of Glycerol on Cholesterol Metabolism in Diabetes Mellitus.

Charles D. West, M.D., Asst. Dir. Prof. Serv. for Research, VAH; Sherman R. Dickman, Ph. D., Assoc. Prof. Biochem., Univ. of Utah; Salt Lake City, Utah. (7367)

1638. The Effect of Thyroid Status and Aging on the Metabolism of C-14 Cortisol by Liver Slices *In Vitro*.

Charles D. West, M.D., Asst. Dir. Prof. Serv. for Research; Salt Lake City, Utah. (7368)

1639. Anatomical Study of Lungs by Full-Section Slices.

Terence H. Cochran, M.D., Ch. Lab. Serv.; Salt Lake City, Utah. (7372)

1640. A Study of Some Effects of Tranquilizing and Hallucinating Drugs on Metabolic Systems.

Don C. Wood, Ph. D., Biochem.; Salt Lake City, Utah. (7375)

1641. Histochemical Study of Mucopolysaccharides in Myxedema.

Perry J. Melnick, M.D., Ch. Lab. Serv.; A. Breslau, M.A., Histochem.; San Fernando, Calif. (10599)

1642. Studies on Zoxazolamine and Uric Acid Metabolism.

Elizabeth B. Reed, M.D., Clin. Invest.; Forrest M. Willett M.D., Ch. Med. Serv.; Thomas V. Feichtmeir, M.D., Ch. Clin. Path. Serv.; San Francisco, Calif. (7445)

1643. The Study of Human Bone as a Function of Age and Disease.

James S. Arnold, M.D., Clin. Invest.; Oscar N. Rambo, M.D., Ch. Anat. Path.; San Francisco, Calif. (8492)

1644. Relationship Between the Rate of Secretion and the Chemical Composition of Metabolic Fecal Fat and the Type of Diet Consumed by Sprue Patients.

Conrado F. Asenjo, Ph. D., Metab. and Nutr. Cons., VAH, Chm. Dept. of Biochem. & Nutr., Univ. of Puerto Rico Sch. of Med.; Rafael Rodriguez-Molina, M.D., Dr. Med. Sc., Asst. Dir. Prof. Serv. for Research, VAH; Marta Cancio, Ph. D., Super. Biochem.; San Juan, P.R. (7473)

1645. Determination of Sodium and Potassium in Puerto Rican Foods.

Marta Cancio, Ph. D., Super. Biochem.; San Juan, P.R. (7479)

1646. Filter Paper Electrophoresis of Serum Proteins in Certain Diseases in Which Disturbances of Blood Proteins Occur.

R. Menendez Corrada, Hemat. Sec.; Julio V. Rivera, Asst. Ch. Med. Serv.; J. Haddock-Suarez, Phys. Med. Serv.; J. A. De Jesus, Ch. GI & Allergy Sec.; Marta Cancio, Ph. D., Biochem. Med. Research Lab.; Mrs. Amina R. de Sala, M.T., Med. Research Lab.; San Juan, P.R. (7495)

1647. Correlation of Skin and Tissue Allergy.

Americo Pomales-Lebrón, Ph. D., Cons. Bacteriol.; Josefina Baralt-Perez, M.S., Bacteriol.; Nivia H. Fernandez, M.S., Research Tech. Bacteriol.; San Juan, P.R. (7502)

1648. Effect of M.K. 125 Hexadecadrol (Merck) in Tropical Sprue.

Eli A. Ramirez, M.D., Ch Med. Serv.; R. Rodriguez-Molina, M.D., Asst. Dir. Prof. Serv. for Research; San Juan, P.R. (8828)

1649. Determination of Range of Normal Values of Serum Uric Acid in Hospitalized Males.

Julio V. Rivera, M.D., Asst. Ch. Med. Serv., Ch. RI Serv.; Marta Cancio, Ph. D., Super. Biochem., Med. Research Lab.; San Juan, P.R. (8829)

1650. Comparative Study of the Therapeutic Effects of Probenecid and Zoxazolamine in Gout.

Julio V. Rivera, M.D., Asst. Ch. Med. Serv., Ch. RI Serv.; Abel F. De Juan, M.D., Resident Int. Med.; Marta Cancio, Ph. D., Superv. Biochem.; San Juan, P.R. (8830)

1651. Atherosclerosis Diagnosis Study.

John L. Bakke, M.D., Asst. Dir. Prof. Serv. for Research, Asst. Ch. Med. Serv.; Paul V. Hoyer, M.D., Resident Med.; Seattle, Wash. (7596)

1652. Human Pituitary Thyrotropic Hormone Content.

John L. Bakke, M.D., Asst. Dir. Prof. Serv. for Research, Asst. Ch. Med. Serv.; Nancy L. Lawrence, M.S., Biochem.; Seattle, Wash. (7599)

1653. The Metabolism of Thyroid Stimulating Hormones by Thyroid Tissue Slices.

John L. Bakke, M.D., Asst. Dir. Prof. Serv. Research; Seattle, Wash. (7600)

1654. Hypothalamo-Hypophyseal Thyrotropin Physiology.

John L. Bakke, M.D., Asst. Dir. Prof. Serv. for Research, Asst. Ch. Med. Serv.; Seattle, Wash. (7601)

1655. Radioiodide Kinetics as Studied in Surviving Thyroid Slices.

John L. Bakke, M.D., Asst. Dir. Prof. Serv. for Research, Asst. Ch. Med. Serv.; Seattle, Wash. (7602)

1656. Preliminary Investigation of Pituitary Slices and Their Hormonal Control.

John L. Bakke, M.D., Asst. Dir. Prof. Serv. for Research, Asst. Ch. Med. Serv.; Nancy L. Lawrence, M.S., Biochem.; Seattle, Wash. (7603)

1657. A New Assay for Thyrotropin.

John L. Bakke, M.D., Asst. Dir. Prof. Serv. for Research, Asst. Ch. Med. Serv.; Nancy L. Lawrence, M.S., Biochem.; Seattle, Wash. (7604)

1658. Cardiotoxic Effects of Potassium.

Belding H. Scribner, M.D., Asst. Prof. Med., Univ. Washington; James M. Burnell, M.D., Attend. VAH, Clin. Asst. Prof. Med., Univ. Washington; Seattle, Wash. (7606)

1659. Assay of Thyroid Stimulating Hormone in Human Plasma in Urine.

John L. Bakke, M.D., Asst. Dir. Prof. Serv. for Research, Asst. Ch. Med. Serv.; M. Lawrence Heideman, Jr., M.D., Clin. Invest.; Nancy L. Lawrence, M.S., Biochem.; Seattle, Wash. (7608)

1660. The Clinical Utility of Radiobromide as a Measure of Extracellular Volume.

Harold T. Dodge, M.D., Ch. Cardiovas. Lab., VAH; James M. Burnell, M.D., Attend. VAH, Clin. Asst. Prof. Med., Univ. of Washington; Belding H. Scribner, M.D., Attend. VAH, Asst. Prof. Med., Univ. of Washington; Seattle, Wash. (7622)

1661. Linodoxine Study.

John L. Bakke, M.D., Asst. Dir. Prof. Serv. for Research, Asst. Ch. Med. Serv.; Paul V. Hoyer, M.D., Resident Med.; Seattle, Wash. (7623)

1662. Estrogenic Interstitial Cell Tumor of the Testis.

M. Lawrence Heideman, Jr., M.D., Clin. Invest.; Seattle, Wash. (7626)

1663. Possible Relationship of Hyper or Hypo Parathyroidism to Cholesterol Metabolism.

John W. Bell, M.D., Ch. Surg. Serv.; Grandon E. Tolstedt, M.D., Resident Surg.; Paul V. Hoyer, M.D., Resident Med.; Seattle, Wash. (7628)

1664. Biochemical Action of Thyroxin.

Norman R. Eaton, Ph. D., Biochem., RI Serv.; Seattle, Wash. (7652)

1665. Metabolism of Propionic Acid as an Index of Obesity.

David D. Feller, Ph. D., Act. Ch. RI Serv.; Elmer Feist, B.S., Biochem.; Seattle, Wash. (7663)

1666. Cell-Free Lipide Synthesis.

David D. Feller, Ph. D., Act. Ch. RI Serv.; Norman R. Eaton, Ph. D., Biochem., RI Serv.; Elmer Feist, B.S., Biochem.; Seattle, Wash. (7664)

1667. Synthesis of Lipides by Adipose Tissue.

David D. Feller, Ph. D., Act. Ch. RI Serv.; Elmer Feist, B.S., Biochem., Seattle, Wash. (7665)

1668. Clinical Use of 2-methyl-1, 2-bis-(3-pyridyl) -1-propanone, An Inhibitor of 11 Beta Hydroxylation of Steroids in Testing Hypothalamic-pituitary ACTH Adrenal Reserve.

John L. Bakke, M.D., Asst. Dir. Prof. Serv. for Research, Asst. Ch. Med. Serv.; Paul V. Hoyer, M.D., Resident Med.; Seattle, Wash. (8812)

1669. Use of a New Oral Antidiabetic Agent.

Robert H. Williams, M.D., Prof. Med., Univ. of Washington; Richard H. Pollen, M.D., Asst. Med., Univ. of Washington; Paul V. Hoyer, M.D., Resident Med., VAH; Seattle, Wash. (8817)

1670. A Cytochemical Study of the Human Anterior Hypophysis Correlated with the Thyroid Stimulating Hormone Content (TSH).

Kenneth P. Knudtson, M.D., Asst. Ch. Lab. Serv.; Seattle, Wash. (9230)

1671. Studied in Parathyroid Transplantation.

Grandon E. Tolstedt, M.D., Resident Surg.; John W. Bell, M.D., Ch. Surg. Serv.; Seattle, Wash. (9232)

1672. A Study of Anti-thyrotropic Substances.

John L. Bakka, M.D., Asst. Dir. Prof. Serv. for Research, Asst. Ch. Med. Serv.; Nancy L. Lawrence, M.S., Biochem.; Seattle, Wash. (9236)

1673. The Clearance of Thyrotropin in Human Plasma.

John L. Bakke, M.D., Asst. Dir. Prof. Serv. for Research, Asst. Ch. Med. Serv.; Nancy L. Lawrence, M.S., Biochem.; Seattle, Wash. (9239)

1674. The Distribution of Thyrotropin Within the Human Hypophysis.

John L. Bakke, M.D., Asst. Dir. Prof. Serv. for Research, Asst. Ch. Med. Serv.; Nancy L. Lawrence, M.S., Biochem.; Kenneth P. Knudtson, M.D., Asst. Ch. Lab. Serv.; Seattle, Wash. (9242)

1675. A Test for Adrenal Steroidal Reserve.

John L. Bakke, M.D., Asst. Dir. Prof. Serv. for Research, Asst. Ch. Med. Serv.; Seattle, Wash. (9248)

1676. Evaluation of New Tests for Hypothalamic-Pituitary-Adrenocotropin Hormone Adrenal Reserve.

John L. Bakke, M.D., Asst. Dir. Prof. Serv. for Research, Asst. Ch. Med. Serv.; Seattle, Wash. (9251)

1677. A Review of Twenty Sporadic Cases of Acute Glomerulonephritis in Adults.

S. G. Tuttle, M.D., Senior Resident, Med., VAC, Los Angeles, Calif.; R. Goldman, M.D., Assoc. Clin. Prof. Med., Univ. of California at Los Angeles; Sepulveda, Calif. (7517)

1678. Clinical Investigation of Chlorpropamide (Diabenese). A Preparation Proposed as an Adjunct in the Oral Treatment of Selected Cases of Diabetes Mellitus.

Ernest Q. King, M.D., Ph. D., Staff Phys.; Sepulveda, Calif. (7526)

1679. Correlation of Animal Age With Febrile Responses to Dehydration.

Charles E. Brown, M.D., Ward Phys.; Gordon J. Kinley, M.D., Ward Phys.; Sepulveda, Calif. (7528)

1680. Observations on Toxicity of Intravenous Fat Preparations.

Charles E. Brown, M.D., Ward Phys.; Gordon J. Kinley, M.D., Ward Phys.; Sepulveda, Calif. (7531)

1681. Clinical Trial of 16-alpha-methyl 9-Hexadecadrol (Decadron).

E. Q. King, M.D., Ph. D., Ward Phys.; Sepulveda, Calif. (10 445)

1682. Diabetes: Impact of the Illness on Wives and Children of Hospitalized Patients.

P. Englund, SWS Tr., Univ. of Southern California; Clement W. Matzen, SWS Training Coord., VAH; Sepulveda, Calif. (10446)

1683. Aminooxydase Activity Under the Influence of Various Endocrine Substances.

J. D. Stevens, M.D., Ward Psychiat.; Sepulveda, Calif. (10501)

1684. The Effect of Liver Disease on the Deiodination of Diiodotyrosine and Triiodothyronine.

William R. Ruegamer, Ph. D., Prin. Scien., RI Serv.; Robert B. Chodos, M.D., Ch., RI Serv.; Syracuse, N.Y. (7324)

1685. Microbiological Assay of Vitamin B_{12} in Serum and Body Tissue.

James A. Halsted, M.D., Dir. Prof. Serv.; Shirley Rubert, M.D., Career Resident Psychiat.; Syracuse, N.Y. (7773)

1686. The Hypermetabolic State of Uremia.

Herbert D. Gullick, M.D., Asst. Ch. Surg. Serv., VAH; C. Barber Mueller, M.D., Cons. Surg., VAH, Prof. Dept. Surg., State Univ. New York Coll. Med.; Richard H. Lyons, M.D., Cons. Med., VAH, Prof. Dept. Med., State Univ. New York Coll. Med.; Syracuse, N.Y. (7802)

1687. Evaluation of Muscle Physiology by Electromyography.

Robert O. Becker, M.D., Ch. Orth. Serv.; Syracuse, N.Y. (7804)

1688. Studies of Calcium Metabolism with Radioactive Calcium.

Lawrence G. Raisz, M.D., Clin. Invest.; William Y. W. Au, M.D., Resident Med.; David F. Hammack, Biol., RI Serv.; Syracuse, N.Y. (7817)

1689. Radiothyroxine Turnover Studies in Patients with Liver Disease.

Robert B. Chodos, M.D., Ch. RI Serv.; Syracuse, N.Y. (7822)

1690. Kinetics of Diiodotyrosine Metabolism in the Normal Subject.

William R. Ruegamer, Ph. D., Prin. Scien., RI Serv.; Robert B. Chodos, M.D., Ch. RI Serv.; Syracuse, N.Y. (7825)

1691. Studies on Extrathyroidal Metabolism of Triiodothyronine.

William R. Ruegamer, Ph. D., Prin. Scien., RI Serv., VAH; Kenneth Sterling, M.D., Asst. Prof. Med., State Univ. New York; Robert B. Chodos, M.D., Ch. RI Serv., VAH; Syracuse, N.Y. (7826)

1692. Tissue Deiodination Systems for Thyroid Analogues.

William R. Ruegamer, Ph. D., Prin. Scien., RI Serv; Syracuse, N.Y. (7827)

1693. Studies on Extrathyroidal Metabolism of Thyroxine in Hypometabolic Subjects without Hypothyroidism.

Robert B. Chodos, M.D., Ch. RI Serv.; William R. Ruegamer, Ph. D., Prin. Scien., RI Serv.; Syracuse, N.Y. (7830)

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1694. An Experimental Malabsorption Syndrome Induced by Neomycin.

Eugene D. Jacobson, M.D., Resident Med., State Univ. of New York Coll. of Med. in Syracuse; Robert B. Chodos, M.D., Ch., RI Serv., VAH; William W. Faloon, M.D., Attend. Med., VAH, Assoc. Prof. Med., State Univ. of New York Coll. of Med. in Syracuse; Syracuse, N.Y. (8729)

1695. Mechanisms Responsible for the Greater and More Rapid Action of Triiodothyronine as Compared to Other Thyronine Derivatives.

William R. Ruegamer, Ph. D., Prin. Scient., RI Serv.; Robert B. Chodos, M.D., Ch. RI Serv.; Syracuse, N.Y. (8730)

1696. Parathyroid Hormone Assay.

Lawrence G. Raisz, M.D., Clin. Invest.; William Y. Au, M.D., Resident Phys., VAH; Jay Tepperman, Prof. Pharm., State Univ. New York; Syracuse, N.Y. (8930)

1697. Studies on Insulin Resistance.

Ernest O. Friedlander, M.D., Asst. Ch. Med. Serv.; Togus, Maine. (7848)

1698. Determination of Insulin Antibodies With the Help of Fluorescein-Labelled Insulin.

Robert L. Ohler, M.D., Ch. Med Serv.; Ernest O. Friedlander, M.D., Asst. Ch. Med. Serv.; Togus, Maine. (10542)

1699. Hyperinsulinism in Chronic Pancreatitis.

Ernest O. Friedlander, M.D., Asst. Ch. Med. Serv.; Togus, Maine. (10543)

1700. Pilot Study Using a Mixture of Regular Insulin Adhered to Gum Acacia Given Intravenously to Rabbits.

Roger G. Metcalf, M.D., Ward Phys.; Togus, Maine. (10544)

1701. Investigation of the Formation of Insulin Antibodies.

Ernest O. Friedlander, M.D., Asst. Ch. Med. Serv.; Togus, Maine. (10545)

1702. Electrophoresis.

Kenneth E. Smith, M.D., Ch. Lab. Serv.; Togus, Maine. (10547)

1703. Fractionation of Serum Proteins in the Fatty Liver Syndrome.

Samuel Zelman, M.D., Med. Serv.; Chi Che Wang, Ph. D., Biochem. Lab. Serv.; I. Appelhanz, Research Med. Tech.; Topeka, Kans. (7894)

1704. Metabolism of Certain Types of Psychiatric Patients.

Chi Che Wang, Ph. D., Biochem. Lab. Serv.; Donald W. Hammersley, M.D., Dir. Prof. Serv.; Isadore Appelhanz, Research Med. Tech.; Topeka, Kans. (7895)

1705. Effect on Blood Lipids of Orally Administered Detergents.

Samuel Zelman, M.D., Med. Serv.; Chi Che Wang, Ph. D., Biochem. Lab. Serv.; Topeka, Kans. (7904)

1706. Study of Liver Necrosis in Needle Biopsies from Patients with Chlorpromazine Hepatitis.

Samuel Zelman, M.D.; Topeka, Kans. (7913)

1707. *In Vitro* Investigation of the Acetylcholinesterase-Choline Acetylase System.

Walter P. Gibble, Ph. D., Research Biochem.; Tucson, Ariz. (7924)

1708. A Study of Nicotine Intoxication.

Clarence B. Davis, Research Tech.; Howard W. Kenney, M.D., Dir. Prof. Serv.; Daniel J. Thompson, M.D., Sect. Ch. Med. Infirmary Sect.; James D. Trader, M.D., Phys. Med. Serv.; John L. Stewart, Act. Dir. Clin. Lab.; Tuskegee, Ala. (7927)

1709. Heparin in Senile Macular Degeneration.

Roger H. Boots, M.D., Ch. Ophth. Sect.; Wadsworth, Kans. (8045)

1710. Comparison of Portal and Systemic Plasma Insulin Activity in Normal and Diabetic Patients.

John A. Owen, Jr., M.D., Asst. Ch. Med. Serv.; Washington, D.C. (7957)

1711. Assay of Insulin-like Activity in Human Plasma.

John A. Owen, Jr., M.D., Asst. Ch. Med. Serv.; Washington, D.C. (7958)

1712. Plasma Insulin Activity in Disease States Associated with Disordered Carbohydrate Metabolism.

John A. Owen, Jr., M.D., Asst. Ch. Med. Serv.; Washington, D.C. (7959)

1713. Plasma Insulin Activity in Obesity.

John A. Owen, Jr., M.D., Asst. Ch. Med. Serv.; Washington, D.C. (7960)

1714. Effect of Single Large Doses of Insulin in Human Diabetes as Measured by Serial Determinations of Plasma Insulin Activity.

John A. Owen, Jr., M.D., Asst. Ch. Med. Serv.; Washington, D.C. (7961)

1715. Erythrocyte Glucose-6-Phosphatase Dehydrogenase Activity and Untoward Reactions to Sulfonylurea Therapy in Diabetes.

John A. Owen, Jr., M.D., Asst. Ch. Med. Serv.; Washington, D.C. (10616)

1716. Cytotoxic Studies on the Cellular Aspects of Allergy.

Dorothy H. Heilman, M.D., Med. Bact.; Washington, D.C. (10617)

1717. Clinical Comparison of Tolbutamide, Chlorpropamide, and Metahexamide in Diabetes.

John A. Owen, Jr., M.D., Asst. Ch. Med. Serv.; Washington, D.C. (10618)

1718. Mechanism of Death in Irradiated Mice Treated with Homologous Bone Marrow.

J. W. Hollingsworth, M.D., Ch. Med. Serv.; Raymond Yesner, M.S., Ch. Lab. Serv.; Harold O. Conn, M.D., Clin. Invest.; West Haven, Conn. (8059)

1719. A Study of the Pathogenesis of Rheumatic Fever by Coon's Technique.

George J. Friou, M.D., Ch. Infectious Dis. Sect; West Haven, Conn. (8064)

1720. Study of Human Diseases Due to Abnormal Immune Mechanisms with the Fluorescent Antibody Technique.

George J. Friou, M.D., Ch. Infectious Dis. Sect.; West Haven, Conn. (8065)

1721. The Effect of Muscular Exercise on Blood Ammonia.

Scott Allen, Med. Biol. Tech; Harold O. Conn, M.D., Clin. Invest.; West Haven, Conn. (8073)

1722. The Integrity of the Hypothalamic-Pituitary Adrenal System After Withdrawal of Steroid Therapy. I. Use of Insulin Hypoglycemia.

Thomas T. Amatruda, Jr., M.D., Ch. Med. Serv., VAH; Philip Bondy, M.D., Assoc. Prof. Med., Yale Univ;. Nicholas D'Esopo, M.D., Ch. Pulm. Dis. Serv., VAH; West Haven, Conn. (8077)

1723. The Adrenal Cortex and Insulin Resistance-Mechanism of Action.

Thomas T. Amatruda, Jr., M.D., Ch. Med. Serv.; West Haven, Conn. (8075)

1724. The Influence of the Adrenal Cortex on Fat Metabolism.

Thomas T. Amatruda, Jr., Ch. Metab. Sect.; West Haven, Conn. (8076)

1725. Evaluation of Parathyroid Function in Normals and Patients with Hyperparathyroidism.

Thomas T. Amatruda, Jr., M.D., Ch. Med. Serv.; West Haven, Conn. (8078)

1726. The Effect of Prolonged Adrenalcorticosteroid Therapy in the Past on Adrenocortical Function.

Thomas T. Amatruda, Jr., M.D., Ch. Med. Serv.; West Haven, Conn. (8079)

1727. Clinical Studies of the Lupus Globulin Factor in Disseminated Lupus and Related Syndromes.

George J. Friou, M.D., Ch. Infect. Diseases Sec.; Edward E. Haley, Ph. D., Biochem. Infect. Diseases Sect.; West Haven, Conn. (8081)

1728. The Nature of Lupus Globulin-Nucleoprotein Interaction and Its Relation to Pathogenesis of Human Disease.

George J. Friou, M.D., Ch. Infect. Disease Sect.; Edward E. Haley, Ph.D., Biochem. Infect. Diseases Sect.; West Haven, Conn. (8130)

1729. Turnover of Cellular Constituents During Growth.

Donald L. Buchanan, M.D., Ch. RI Serv.; West Haven, Conn. (8141)

1730. Muscle Protein Synthesis and Turnover.

Donald L. Buchanan, M.D., Ch. RI Serv.; Roman T. Markiw, M.S., Biochem. RI Serv.; Betty J. Corcoran, M.S., Biochem. RI Serv.; West Haven, Conn. (8142)

1731. Studies on the Biosynthesis of Iodinated Tyrosine Derivatives.

Nicholas M. Alexander, Ph. D., Prin. Scien. RI Serv.; West Haven, Conn. (8143)

1732. Regulation of Aldosterone Excretion.

Patrick J. Mulrow, M.D., Clin. Invest.; West Haven, Conn. (9858)

1733. Corticosteroid Production and Synthesis by Interrenal Tissue of Fish.

Patrick J. Mulrow, M.D., Clin. Invest., VAH; John Phillips, M.D., Bingham Oceanographic Dept., Yale Univ., New Haven, Conn.; West Haven, Conn. (9859)

1734. The Integrity of the Hypothalamic-Pituitary Adrenal System After Withdrawal of Steroid Therapy II. Use of SU 4885 (Ciba) and Stress.

Thomas T. Amatruda, Jr., M.D., Ch. Med. Serv.; West Haven, Conn. (9869)

1735. Functional Aspects of Aortic Mucopolysaccharides.

Ira Gore, M.D., Ch. Lab. Serv.; West Roxbury, Mass. (11045)

1736. Intravascular Coagulation and Atherogenesis.

Ira Gore, M.D., Ch. Lab. Serv.; Daniel P. Collins, M.D., Resident, Path.; Richard W. Newcomb, M.D., Resident, Path.; West Roxbury, Mass. (11047)

1737. The Effect of Diuril Therapy Upon the Levels of Serum Uric Acid and Electrolytes and Upon the 24 Hour Excretion of Uric Acid.

Kenneth Monroe, M.D., Resident, Med. Serv.; Lester Grant, M.D., Resident, Card.; Arthur Sassahara, M.D., Resident, Card.; David Littmann, M.D., Card.; West Roxbury, Mass. (11048)

1738. Purity of Commercial Cholesterol.

A. Daniels, M.D., Ch. Lab. Serv.; Whipple, Ariz. (8212)

1739. Adrenal Reserve After Treatment With ACTH and/or Steroids.

James W. Russell, M.D.; White River Junction, Vt. (8233)

1740. Urinary Nitrogen Partition During the Phase of Negative Nitrogen Balance Following Surgery.

George H. Stueck, Jr., M.D., Asst. Dir. Prof. Serv. for Research; Walter B. Crandell, M.D., Ch. Surg. Serv.; White River Junction, Vt. (8241)

1741. Clinical Chemical Studies in Acid-Base Balance in Surgical Patients.

Walter B. Crandell, M.D., Ch. Surg. Serv.; George H. Stueck, Jr., M.D., Asst. Dir. Prof. Serv. for Research; White River Junction, Vt. (10680)

1742. Study of Pulmonary Function in Patients With Cirrhosis of Liver Before Treatment and After Improvement of Cirrhosis As a Result of Treatment.

Milton Kantor, M.D., Ch. Med. Serv.; Leo J. Corazza, M.D., Research Cons. Pulm. Func.; Felix Feraru, M.D., Ch. Surg.; Charles S. Morrow, M.D., Ch. Pulm. Dis. Sec.; Wilkes-Barre, Pa. (10163)

1743. Sterol Metabolism in Insects. III. Inhibition of Cholesterol Utilization by Thiocholesterol Esters.

Jerre L. Noland, Ph. D., Ch. Biochem. Lab.; William L. Stusek, Med. Tech., Biochem. Lab.; Wood, Wis. (8258)

1744. Affinity of Digitonin For 3-Substituted Sterols.

Jerre L. Noland, Ph. D., Ch. Biochem. Lab; William L. Stusek, Med. Tech., Biochem. Lab.; Grace C. Gasiorowski, Med. Tech. Biochem. Lab.; Wood, Wis. (8263)

1745. Hormonal Effects of 3-Substituted Pregnenolone Derivatives.

Jerre L. Noland, Ph. D., Ch. Biochem. Lab., Research Serv.; Harry W. Knoblock, B.S., Med. Biol. Tech.; Wood, Wis. (8264)

1746. Hormonal Effects of Estradiol and Diethylstilbestrol Derivatives.

Jerre L. Noland, Ph. D., Ch. Biochem. Lab.; Harry W. Knoblock, Med. Tech., Biochem. Lab.; William L. Stusek, Med. Tech., Biochem. Lab.; Wood, Wis. (8267)

1747. Werner Syndrome: Report of a Case With a New Approach to Therapy.

Harold D. Rose, M.D., Ch. Med. Chest Sec.; Wood, Wis. (8269)

1748. Long-Acting Synthetic Estrogens.

Jerre L. Noland, Ph. D., Ch., Biochem. Lab.; Harry W. Knoblock, Med. Tech., Biochem. Lab.; Wood, Wis. (8276)

1749. Mineral Requirements of the German Cockroach.

Jerre L. Noland, Ph. D., Ch. Biochem. Lab.; Wood, Wis. (8277)

1750. The Use of Hydrochlorothiazide (Hydrodiuril[R]) in the Treatment of Cirrhosis of the Liver With Ascites.

Donald A. Roth, M.D., Ph. D., Ch. Metab. & Endocrin. Sec.; Jack J. Levin, M.D., Asst. Ch., Med. Serv.; Salvatore Fricano, M.D., Phys. GI Sec.; Wood, Wis. (8288)

1751. The Effect of Heparin on the Response to Stress.

Lyle H. Hamilton, Ph. D., Ch. Phy. Sec., Research Serv.; Donald J. Paluszka, Research Fellow; Wood, Wis. (9747)

4. Blood and Blood-Forming Organs

1752. Study of Anemia of Hepatic Cirrhosis.

Charles A. Hall, M.D., Ch. Hemat. Sec. and Ch. RI Serv.; Albany, N.Y. (2038)

1753. Vitamin B_{12} Metabolism in Liver Disease.

Charles A. Hall, M.D., Ch. Hemat. Sec. and Ch. RI Serv.; Albany, N.Y. (2040)

1754. Studies on Fibrinogen.

W. A. Childs, M.D., Ch. Surg. Serv.; R. D. Strickland, Ph. D., Research Biochem.; Albuquerque, N. Mex. (2059)

1755. Tissue Culture: Bone Marrow, Normal and Leukemic.

Donald R. Korst, M.D., Ch. RI Serv.; Henry K. Schoch, M.D., Ch. Med. Serv., VAH; Frank H. Bethell, M.D., Prof. Intern. Med., Univ. of Michigan; Francis E. Bull, M.D., Instr. Intern. Med., Univ. of Michigan; Nancy Blumenthall, M.D., Instr. Intern. Med., Univ. of Michigan; Ann Arbor, Mich. (2147)

1756. Effect of Low-Fat Diets on Blood Coagulation Factors.

Eugene P. Frenkel, M.D., Resident, Med. Serv.; Henry K. Schoch, M.D., Ch. Med. Serv.; Gertrude Bailey, M.S., Research Diet.; William H. Starkweather, B.S., Research Biochem.; Ann Arbor, Mich. (2158)

1757. The Effects of Radiation on the Mouse Myeloma Tumor.

Donald R. Korst, M.D., Act. Ch. RI Serv., VAH; Charles D. Cobau, M.D., Resident, Intern. Med., Univ. of Michigan; Ann Arbor, Mich. (2214)

1758. Tissue Culture Assay of Erythropoietic Stimulation.

Donald R. Korst, M.D., Act. Ch. RI Serv.; Joan E. Wilhelm, Med. Biol., Med. Research, VAH; Frank H. Bethell, M.D., Dir. Simpson Memorial Inst., Prof. Intern. Med., Univ. of Michigan; Ann Arbor, Mich. (2215)

1759. Tissue Culture Studies of Human Bone Marrow and Rat Bone Marrow Using Carbon-14 Adenine and Formate and Tritiated Thymidine.

Donald R. Korst, M.D., Act. Ch. RI Serv.; Joan E. Wilhelm, Med. Biol., Med. Research, VAH; Frank H. Bethell, M.D., Dir. Simpson Memorial Inst., Prof. Intern. Med., Univ. of Michigan; Ann Arbor, Mich. (2216)

1760. The Development of the Thyroidectomized Rat as a New Bio-Assay Animal for Erythropoietin.

Donald R. Korst, M.D., Act. Ch., RI Serv., VAH; Frank H. Bethell, M.D., Dir. Simpson Memorial Inst., Prof. Intern. Med., Univ. of Michigan; Ann Arbor, Mich. (2219)

1761. The Evaluation of Electronic Red Blood Cell Counter and Leukocyte Counting.

Donald R. Korst, M.D., Act. Ch. RI Serv.; Ann Arbor, Mich. (2221)

1762. Serum Iron and Bone Marrow Iron Staining.

Donald R. Korst, M.D., Act. Ch. RI Serv.; Joan E. Wilhelm, Med. Biol., Med. Research; Ann Arbor, Mich. (2222)

1763. Rat Radioiron Assay of Erythropoietin.

Frank H. Bethell, M.D., Dir., Simpson Memorial Inst., Prof. of Intern. Med., Univ. of Michigan; Donald R. Korst, M.D., Act. Ch. RI Serv., VAH; Ann Arbor, Mich. (2228)

1764. Gastric Secretion in Pernicious Anemia.

Julius Wenger, M.D., Asst. Ch. Med. Serv. VAH; Ivan Backerman, A.B., Clin. Clerk in Med., Emory Univ.; Benjamin R. Gendel, M.D., Prof. Med., Emory Univ., Cons. Hemat., VAH; James C. Coberly, M.D., Ch. RI Serv., Asst. Ch. Med. Serv., VAH; Barbara M. Covey, B.S., Biochem., RI Serv.; Atlanta, Ga. (2276)

1765. The Effect of Hyponatremia on Red Cell Survival Time.

Milton J. Krainin, M.D., Attend. Phys., Med. Serv., VAH, Assoc. in Med., Emory Univ.; Julius Wenger, M.D., Asst. Ch. Med. Serv., VAH; James C. Coberly, M.D., Ch. RI Serv., Asst. Ch. Med. Serv.; Barbara M. Covey, B.S., Biochem., RI Serv.; Atlanta, Ga. (2284)

1766. Electrophoretic Studies of Serum Lipoids & Polysaccharides in Relation to Vascular Disease; Lymphomas; Collagen Diseases; and Abnormal Hemoglobins in Colored Patients.

Virgil P. Sydenstricker, M.D., Asst. Ch. Med. Serv.; Augusta, Ga. (2295)

1767. Determination of Blood Ammonia Levels in Various Types of Liver Disease.

V. P. Sydenstricker, M. D., Asst. Ch. Med. Serv.; J. Lozner, M.D., Asst. Ch. Med. Serv.; Augusta, Ga. (9029)

1768. AG Ratios and Blood Volume Studies in the Geriatric Patient.

Hermina S. Tannenbaum, Biochem.; Bath, N.Y. (2403)

1769. The Origin of Fat Emboli Associated With Trauma.

Sidney P. Kent, M.D., Assoc. Prof. Path., Med. Coll. of Alabama; William E. Martindale, Biochem., VAH; Ralph J. Watson, Junior Med. Student, Med. Coll. of Alabama; Birmingham, Ala. (2638)

1770. Iron Metabolism in Chronic Plumbism.

C. E. Butterworth, M.D., Instr. Med., Med. Coll. of Alabama; John D. Boyett, M.D., Resident Med., Med. Coll. of Alabama; James A. Pittman, Jr., M.D., Ch. RI Serv., VAH; Don Hamner, Phys. Science Aid (Gen.); Birmingham, Ala. (9672)

1771. The Synthesis of Glutathione by Human and Blood Cells.

Aaron Miller, M.D., Phys. RI Serv.; Martha Horiuchi, B.S., Biochem. RI Serv.; Boston, Mass. (10298)

1772. Case Report: Acute Leukemia With Pulmonary Interstitial Infiltration.

Robert A. Green, M.D., Asst. Ch. Chest Sect.; N. Nichols, M.D., Resident Med.; E. King, M.D., Attend. Med.; Bronx, N.Y. (4527)

1773. Effect of Erythropoietin on the Anemia of Chronic Nephritis.

Abraham M. Kleinman, M.D., Manager; Bernard Klein, Ph. D. Ch. Chem. Sect.; Bronx, N.Y. (4554)

1774. Effect of Testosterone Upon Refractory Anemias.

Ernest Schwartz, M.D., Ch. Metab. Unit; Bronx, N.Y. (4557)

1775. Adaption of Micro Diffusion Chamber Techniques for Human Hematological Problems.

Ira Green, M.D.; A. F. Liber, M.D.; Bronx, N.Y. (4560)

1776. Plasma Cell Myeloma Involving the Sacrum.

Erich G. Krueger, M.D., Ch. Neurosurg. Sect.; W. B. Kintzing, M.D., Resident, Neurosurg. Sect.; Bernard Roswit, M.D., Ch. Radiation Therapy; Bronx, N.Y. (10093)

1777. Immunological Studies With Glutamyl Peptide.

Max Bovarnick, M.D., Ph. D., Ch. Lab. Serv.; George Ostroff, M.A., Serol., Lab. Serv.; David R. Axelrod, M.D., Ch. Metab. Sect.; Brooklyn, N.Y. (2854)

1778. Demonstration and Study of Abnormal Hemoglobins.

Paul W. Spear, M.D., Ch. Med. Serv.; Martin Sass, M.S., Biochem., Med. Serv.; Brooklyn, N.Y. (2855)

1779. Interference of Heparin in the Formation of Blood Thromboplastin.

Martin Sass, M.S., Biochem., Med. Serv.; Paul W. Spear, M.D., Ch. Med. Serv.; Brooklyn, N.Y. (2866)

1780. An Adenosine Triphosphate Activated Hemolysis—Utilization of Adenosine Triphosphate.

Max Bovarnick, M.D., Ph. D., Ch. Lab. Serv.; Leo A. Miller, Ph. D., Biochem., Research Lab.; Blanche A. Borek, Ph. D., Biochem., Research Lab.; Brooklyn, N.Y. (2878)

1781. Glutamic-Oxaloacetic Transaminase Content of Red Cells

Martin Sass, M.S., Biochem. Med. Serv., Brooklyn, N.Y. (2880)

1782. Effect of Polyglutamic Acid Plasma Expander on Coagulation Mechanisms

Martin Sass, M.S., Biochem. Med. Serv.; Daniel J. O'Connell, M.A., Biochem. Research Lab.; Max Bovarnick, M.D., Ph. D., Ch. Lab. Serv., Brooklyn, N.Y. (2881)

1783. Bone Marrow Culture

Yale Rabinowitz, M.D., Asst. Ch. Lab. Serv.; Max Bovarnick, M.D., Ph. D., Ch. Lab. Serv., Brooklyn, N.Y. (2888)

1784. An Adenosine Triphosphate Activated Hemolysis—Mechanism of Reaction

Max Bovarnick, M.D., Ph. D., Ch. Lab. Serv.; Blanche Borek, Ph. D., Biochem., Research Lab.; Brooklyn, N.Y. (2951)

1785. Modification of Systemic Effects of Nitrogen Mustard by Temporary Splenic Pedical Compression

Andrew A. Gage, M.D., Staff Surg.; William M. Chardack, M.D., Ch. Surg. Serv., VAH; Marvin L. Bloom, M.D., Attend. Hemat., VAH, Assoc. Prof. Med., Univ. of Buffalo; Buffalo, N.Y. (2982)

1786. Electrophoretic Studies of Subjects with Various Collagen Diseases with Consideration of Changes Effected by Cortisone and ACTH

Joseph T. Aquilina, M.D., Asst. Ch. Med. Serv.; Wells E. Farnsworth, Ph. D., Research Biochem.; Buffalo, N.Y. (3004)

1787. An Experiment Designed to Investigate the Effect of Exposure of Human Blood to Temperature of −196°C.

Marvin L. Bloom, M.D., Cons. Hemat., VAH, Assoc. Prof. Med., Univ. of Buffalo Sch. of Med.; Ted M. Bow, Biochem., VAH; Harold Steinberg, M.D., Research Fellow; John W. Lawrow, M.D., Research Fellow; Dolores L. Swack, RI Tech.; Buffalo, N.Y. (9335)

1788. Blood Dyscrasia-Pilot Study

Florence S. Jenney, M.D., Ch. Lab. Serv.; Butler, Pa. (3042)

1789. Bone Marrow Deposits in Bronchial Cartilage

Rosario Sacca, M.D., Ward Phys.; David P. Seecoff, M.D., Cons. Path.; Castle Point, N.Y. (3587)

1790. The Plasma Erythropoietic Factors in Polycythemia Vera.

James W. Linman, M.D., Ch., Hemat. Serv.; Martha J. Long, M.S., Biochem. Hemat.; Chicago (Res.), Ill. (3638)

1791. The Hemopoietic Effects of Batyl Alcohol.

James W. Linman, M.D., Ch. Hemat. Serv.; Martha J. Long, M.S., Biochem. Hemat.; Chicago (Res.), Ill. (3639)

1792. Possible Granulopoietic and Thrombopoietic Humoral Factors.

James W. Linman, M.D., Ch. Hemat. Serv.; Martha J. Long, M.S., Biochem. Hemat.; Chicago (Res.), Ill. (3640)

1793. The Chemotherapy of Leukemia and Lymphoma.

James W. Linman, M.D., Ch. Hemat. Serv.; Martha J. Long, M.S., Biochem. Hemat.; Chicago (Res.), Ill. (3641)

1794. The Role of the Plasma Erythropoietic Factors in the Maintenance of Normal Erythrocytic Equilibrium.

James W. Linman, M.D., Ch. Hemat. Serv.; Martha J. Long, M.S., Biochem. Hemat.; Chicago (Res.), Ill. (3642)

1795. Mechanisms Involved in Hematologic Adaptation to Chronic Anoxia.

James W. Linman, M.D., Ch. Hemat. Serv.; Craig W. Borden, M.D., Ch. Med. Serv.; John A. D. Cooper, M.D., Ch. RI Sect.; Chicago (Res.), Ill. (3643)

1796. The Relationship of the Plasma Erythropoietic Factors to Various Anemic States in Man.

James W. Linman, M.D., Ch. Hemat. Serv.; Martha J. Long, M.S., Biochem. Hemat.; Chicago (Res.), Ill. (3644)

1797. A Test for Circulating Anticoagulants in the Blood.

Frederick Preston, M.D., Ch. Surg.; Otto Trippel, M.D., Ch. Gen. and PV Surg.; Chicago (Res.), Ill. (3689)

1798. The Administration of Cobalt^{60} Labeled B_{12} to Patients With Pernicious Anemia.

John A. D. Cooper, Ph. D., M.D., Ch. RI Serv.; James W. Linman, M.D., Hemat.; Chicago (Res.), Ill. (3820)

1799. Determination of the Sites of Red Cell Sequestration in Hemolytic Anemias by Body Scanning after Injection of Cr^{51} Tagged Red Cells.

Harry J. Miller, M.D., Fellow, Hemat., Northwestern Univ.; John A. D. Cooper, M.D., Ch. RI.; James W. Linman, M.D., Ch. Hemat. Sect.; Chicago (Res.), Ill. (9092)

1800. The Incidence of Hemoglobinopathies in a Negro Hospital Population.

Harry J. Miller, M.D., Fellow, Hemat.; James W. Linman, M.D., Ch. Hemat. Sect., Med. Serv.; Chicago (Res.), Ill. (9093)

1801. The Effect of Arginine-Glutamate Solution on Blood Ammonia Levels.

George C. Henegar, M.D., Staff Surg.; F. W. Preston, M.D., Ch. Surg. Serv.; Craig W. Borden, M.D., Ch. Med. Serv.; Chicago (Res.), Ill. (9111)

1802. Induced Atherosclerosis in the Arteries of Dogs and Rabbits Subjected to Endarterectomy.

Otto Trippel, M.D., Ch. Gen. and PV Surg.; Victor Bernhard, M.D., Res. Surg.; Chicago (Res.), Ill. (9577)

1803. Clinical Application of Bone Marrow Transplants.

Paul Heller, M.D., Asst. Dir. Prof. Serv. Research; Vincent J. Yakulis, B.S., Serol., Research Lab.; Chicago (W.S.), Ill. (3743)

1804. The Plasma Enzyme Pattern in Sickle Cell Anemia.

Paul Heller, M.D., Asst. Dir. Prof. Serv. Research; Hyman G. Weinstein, M.S., Biochem., Research Lab.; Michel West, M.D., Form. Resident, Med. Serv., VAH; Hyman J. Zimmerman, M.D., Attend. Phys., VAH, Chm. Dept. Med., Prof. Med., Chicago Med. Sch.; Chicago (W.S.), Ill. (9377)

1805. Enzyme Abnormalities in Glucose-6-Phosphate Dehydrogenase —Deficient Erythrocytes.

Paul Heller, M.D., Asst. Dir. Prof. Serv. Research; Hyman G. Weinstein, M.S., Biochem., Research Lab.; Marjorie Hedrick, M.S., Biochem., Research Lab.; Chicago (W.S.), Ill. (9378)

1806. Enzymes of Carbohydrate Metabolism in Platelets.

Paul Heller, M.D., Asst. Dir. Prof. Serv. Research; Hyman G. Weinstein, M.S., Biochem., Research Lab.; Chicago (W.S.), Ill. (9379)

1807. The Difference in Enzyme Content of Plasma and Serum.

Paul Heller, M.D., Asst. Dir. Prof. Serv. Research; Hyman G. Weinstein, M.S., Biochem., Research Lab.; Chicago (W.S.), Ill. (9380)

1808. The Use of Starch Gel and Agar Gel Electrophoresis for the Determination of the Minor Hemoglobin Components.

Vincent J. Yakulis, B.S., Serol., Research Lab., VAH; Aaron Josephson, M.D., Attend. Phys., VAH, Dir., Hemat. Research Inst., Michael Reese Hosp.; Paul Heller, M.D., Asst. Dir. Prof. Serv. Research, VAH; Chicago (W.S.), Ill. (9381)

1809. The Enzyme Pattern in Megaloblastic Anemia.

Paul Heller, M.D., Asst. Dir. Prof. Serv. Research; Michael West, M.D., Form. Resident, Med. Serv., VAH; Hyman J. Zimmerman, M.D., Attend. Phys., VAH, Chm. Dept. Med., Prof. Med., Chicago Med. Sch.; Hyman G. Weinstein, M.S. Biochem., Research Lab., VAH; Chicago (W.S.), Ill. (9382)

1810. Immunological Determination of A_2 Hemoglobin.

Paul Heller, M.D., Asst. Dir. Prof. Serv. for Research, VAH; Aaron A. Josephson, M.D., Attend. Phys., VAH, Dir. Hemat. Research Inst., Michael Reese Hosp.; Vincent J. Yakulis, B.S., Serol., Research Lab., VAH; Chicago (W.S.), Ill. (9383)

1811. The Combination of Megaloblastic Anemia, Hemolytic Anemia and S-Thalassemia.

Herman Oliner, M.D., Resident, Med. Serv.; Paul Heller, M.D., Asst. Dir. Prof. Serv. for Research; Chicago (W.S.), Ill. (9384)

1812. Study of Gastrointestinal Absorption of Vitamin B_{12} in Patients With Pernicious Anemia With and Without Oral Intrinsic Factor.

Richard M. Whittington, M.D., Ch. Hemat. Sec., VAH; L. G. Suhrland, M.D., Senior Instr. Med., Western Reserve Univ.; Richard E. Clark, B. S., Physicist, RI Serv., VAH; Cleveland, Ohio. (3124)

1813. Study of Nucleic Acid Breakdown Products in Urine of Patients With Acute Leukemia.

R. M. Whittington, M.D., Ch. Hemat. Sec., VAH; D. L. Horrigan, M.D., Asst. Prof. Med., Western Reserve Univ., Med. Sch.; Florence D. Werner, Research Hemat. Tech., VAH; Cleveland, Ohio. (3138)

1814. Serum Iron Determinations in Various Hematologic, Hepatic and Gastrointestinal Disorders.

R. M. Whittington, M.D., Ch. Hemat. Sec.; Harold P. Roth, M.D., Ch. GI Sec.; H. H. Heller, M.D., Fellow, GI; Barbara Loewy, Research Tech.; Cleveland, Ohio. (3150)

1815. Measurement of Ratio of Free and Esterified Riboflavin in the Blood of Schizophrenic Patients *vs.* Normal Subjects.

Herbert Sprince, Ph. D., Ch. Research Biochem.; Clarence W. Parker, B.S., Chem.; Coatesville, Pa. (9079)

1816. Electrophoretic Analysis of the Mechanism Involved in Blood Coagulation.

Paul W. Boyles, M.D., Research Assoc.; Catherine C. Ashley, Sc. B., Biochem.; Rodney P. Dunaway, Med. Biol. Tech.; Coral Gables, Fla. (3203)

1817. Localization of X-irradiation of the Site of Erythropoietic Stimulation.

Wilson C. Grant, Ph. D., Dir. Research Lab.; Coral Gables, Fla. (8508)

1818. Methods of Bone Marrow Protection From Bone Marrow Depressants.

Mark W. Wolcott, M.D., Ch. Surg. Serv.; Oswald H. Coury, M.D., Resident Gen. Surg.; Charles M. Bonura, M.D., Resident Gen. Surg.; Saul I. Nitzberg, M.D., Act. Ch. Hemat. Sec.; Bernard Lieberman, M.D., Ch. Radiol. Serv.; G. A. Puente-Duany, Asst. Ch. Lab. Serv.; Coral Gables, Fla. (8879)

1819. Micro-Prothrombin Time Determination.

Samuel M. Townsend, M.S., Bact.; Coral Gables, Fla. (9595)

1820. The Development of a Method To Measure the Plasma Space.

Seymour Eisenberg, M.D., Asst. Ch. Med. Serv.; Mary Sue McCall, Biol., RI Serv.; Dallas, Tex. (3341)

1821. An Improved Method for Predicting Blood Volumes.

Donald A. Sutherland, M.D., Cons. RI Serv. VAH, Dir. Med. Educ. and Research, St. Paul's Hosp.; Mary Sue McCall, Biol., RI Serv., VAH; Lora Sue Keller, Biol., RI Serv.; Dallas, Tex. (10333)

1822. Clinical Investigation of Patient with Hemoglobin C. Disease.

Russell E. McBroom, M.D., Ch. Hemat. Sect.; Dayton, Ohio. (3368)

1823. Serologic Precipitation Test for L.E.

Berkeley Slutzker, M.D., Asst. Dir. Prof. Serv. Research; Dayton, Ohio. (12035)

1824. Clinical Investigation of Macroglobulinemia.

Russell E. McBroom, M.D., Ch. Hemat. Sect.; Dayton, Ohio. (12065)

1825. Quantitative Estimation of Serum Proteins by Means of Specific Precipitation in Semi-Solid Media.

M.W. Wilson, M.D., Ch. Lab. Serv.; B. H. Pringle, Ph. D., Ch. Med. Research Lab.; Dearborn, Mich. (3432)

1826. Immunochemical Analysis of Normal Serum Proteins.

M. W. Wilson, M.D., Ch. Lab. Serv.; B. H. Pringle, Ph. D., Ch. Med. Research Lab.; Dearborn, Mich. (3440)

1827. The Investigation of Erythropoietin and Erythropoietic Factors *In Vitro*.

E. R. Powsner, M.D., Clin. Invest., VAH; L. Berman, M.D., Cons. VAH, Prof. Histopath., Wayne State Univ.; Dearborn, Mich. (9084)

1828. Erythremic Myelosis and Erythroleukemia.

E. H. Valentine, M.D., Ch. Lab. Serv.; Denver, Colo. (3491)

1829. Measurement of Peripheral Blood Flow.

C. J. Hlad, Jr., M.S., Asst. Ch. RI Serv., VAH; G. Gordan, M.D., Asst. Med. Univ. of Colo. Sch. of Med.; H. Elrick, M.D., Ch. Research Lab. and RI Serv., VAH; Denver, Colo. (3520)

1830. Determination of Plasma Sulfate Using Radioactive Barium (Ba^{133}).

C. J. Hlad, Jr., Asst. Ch. RI Serv.; Esther Miller, Physicist, R.I. Serv., VAH; J. H. Holmes, M.D., Prof. and Head Lab. Med. and Clin. Path., Univ. of Colorado Sch. of Med.; Denver, Colo. (9444)

1831. Culture of Blood Cells.

E. C. Oldham, Biochem.; Des Moines, Iowa. (3560)

1832. Clinical Study of the Use of a Hemostatic Agent (Hemopak).

Louis T. Palumbo, M.D., Ch. Surg. Serv.; Donald J. Lulu, M.D., Asst. Sect. Ch. Gen. Surg.; Des Moines, Iowa. (9348)

1833. Clinical and Hematologic Studies of New Hemoglobin Type Tentatively Designated as "Durham No. 1."

A. I. Chernoff, M.D., Ch. Hemat. Serv.; Durham, N.C. (3871)

1834. Studies of Human Myoglobin in Hereditary and Acquired Diseases.

A. I. Chernoff, M.D., Ch. Hemat. Serv.; Durham, N.C. (3872)

1835. Hemoglobin Types and Blood Groups in the American Indian.

A. I. Chernoff, M.D., Ch. Hemat. Serv., VAH; William Pollitzer, Ph. D., Dept. Anat., Univ. North Carolina; Durham, N.C. (3873)

1836. Solubility Studies of Hemoglobin D.

A. I. Chernoff, M.D., Ch. Hemat. Serv., VAH; J. Silverman, Med. Stud., Duke; Durham, N.C. (3874)

1837. Rapid Hemoglobin Electrophoresis Techniques.

A. I. Chernoff, M.D., Ch. Hemat. Serv., VAH; T.E. Weichselbaum, Ph. D., Biophys., Dept. Surg., Washington Univ.; Durham, N.C. (3876)

1838. Agar Electrophoresis.

A. I. Chernoff, M.D., Ch. Hemat. Serv.; D. K. Misra, M.D., Asst., Cancer Chemotherapy Program; L. L. Horton, A. B., Ch. Tech., Hemat. Sect.; Durham, N.C. (3877)

1839. Effects of Bubble Oxygenator Extra-Corporeal Circulation on Various Coagulation Factors.

Marcus L. Dillon, M.D., Asst. Ch. Surg. Serv.; R. W. Postlethwait, M.D., Ch. Surg. Serv.; Durham, N.C. (3899)

1840. Effects of Bubble Oxygenator Extra-Corporeal Circulation on Red Cell Survival.

Marcus L. Dillon, M.D., Asst. Ch. Surg. Serv., VAH; Ivan Brown, M.D., Assoc. Prof. Surg., Duke Univ.; Durham, N.C. (3900)

1841. Study of Transfusion Reaction in Dogs.

Marcus L. Dillon, M.D., Asst. Ch. Surg. Serv.; Durham, N.C. (3904)

1842. Blood Coagulation Studies.

R. W. Postlethwait, M.D., Ch. Surg. Serv., VAH; William G. Anlyan, M.D., Assoc. Prof. Surg., Duke Univ.; Ivan Brown, M.D., Assoc. Prof. Surg., Duke Univ.; Marcus L. Dillon, M.D., Asst. Ch. Surg. Serv., VAH; Durham, N.C. (3910)

1843. Blood Group in a Homogenous Group of Manic-Depressive Patients.

Joseph B. Parker, Jr., M.D., Ch. Psychiat. Serv.; Durham, N.C. (3942)

1844. Effects of Transplantation of Spleen Into Periosteal Bed in Rabbits.

Sidney Trubowitz, M.D., Asst. Ch. Med. Serv.; Albert Levy, M.D., Ch. Surg. Serv.; East Orange, N.J. (3996)

1845. The Role and Mechanism of Action of the Alkaline Phosphatases of Human and Animal Leucocytes.

Sidney Trubowitz, M.D., Asst. Ch. Med. Serv.; Donald Feldman, M.A., Ch. Biochem. Sec., Med. Research Lab.; Stanley W. Morganstern, B.S., Biochem., Med. Research Lab.; Vincent M. Hunt, B.S., Biochem., Med. Research Lab.; East Orange, N.J. (3999)

1846. Fibrinogen Levels in Massive Hemorrhage and Pulmonary Infarction.

Richard Sharrett, M.D., Resident, Med. Serv.; East Orange, N.J. (4010)

1847. Leucocyte Alkaline Phosphatase Variations With the Use of Pyrexal and Stimulation of Leucocytosis.

Sidney Trubowitz, M.D., Asst. Ch. Med. Serv.; Donald Feldman, M.A., Ch. Med. Research Lab.; East Orange, N.J. (8625)

1848. Paper Electrophoresis Patterns in Disease..

Irving Freeman, M.D., Ch. Med. Serv.; Clyde B. Cope, M.D., Sec. Ch. GI; Fort Howard, Md. (4063)

1849. Serum Proteolytic Enzyme Inhibition in Hodgkin's and Allied Diseases.

W. Wilson Schier, M.D., Dir. Prof. Serv.; Deborah A. Jackson, B.S., Biochem.; Charles S. Collier, Med. Biol. Tech.; Fort Howard, Md. (4066)

1850. Examination of Cases of Hypersplenism for Mast Cells.

Norman Ende, M.D., Ch. Lab. Serv.; Edward I. Cherniss, M.D., Med. Serv.; Fresno, Calif. (4101)

1851. Effect of Splenectomies on Red Cell Survival on Normal Patients.

Armand P. Gelpi, M.D., Med. Serv.; Norman Ende, M.D. Ch. Lab. Serv.; Fresno, Calif. (4108)

1852. *In Vitro* Cytotoxicity of X-rays and Chemotherapeutic Agents on Lymphocytes from Patients with Chronic Lymphogenous Leukemia.

Robert Schrek, M.D., Staff Phys. Path. Serv.; Irving A. Friedman, M.D., Attend. Phys. Med. Serv.; Stanley L. Leithold, M.D., Attend. Phys. Med. Serv.; Hines, Ill. (4187)

1853. Measurement of the Radiosensitivity of Normal Lymphocytes of Man and Other Species.

Robert Schrek, M.D., Staff Phys. Path. Serv.; Hines, Ill. (4190)

1854. An *In Vitro* Slide Chamber Method for Measuring the Sensitivity of Normal and Leukemic Human Lymphocytes to Cytotoxic Agents.

Robert Schrek, M.D., Staff Phys. Path. Serv.; Hines, Ill. (4191)

1855. Simultaneous Labeling of Red Cells and Plasma Proteins with CR^{51}

Ervin Kaplan, M.D., Act. Assoc. Dir. RI Serv.; Yvo T. Oester, M.D., Ph. D., Act. Dir. RI Serv.; Hines, Ill. (4194)

1856. Abnormal Bleeding in the Surgical Patient.

Lyle A. Baker, M.D., Ch. Med. Serv.; Irving A. Friedman, M.D., Attend. Phys. Med. Serv.; Gloucester A. Price, M.D., Staff Phys. Med. Serv.; Hines, Ill. (4199)

1857. Cytotoxicity of Heterologous Sera to Normal and Leukemic Human Lymphocytes

Robert Schrek, M.D., Staff Phys. Path. Serv.; Hines, Ill. (4213)

1858. An Evaluation of the Clinical Significance of the *In Vitro* Measure of the Radiosensitivity of Lymphocytes from Patients with Chronic Lymphogenous Leukemia.

Robert Schrek, M.D., Staff Phys., Path. Serv. VAH; Irving A. Friedman, M.D., Attend. Phys., Med. Serv., VAH, Clin. Asst. Prof., Dept. of Med., Chicago Med. Sch.; Stanley L. Leithold, M.D., Attend. Phys., Med. Serv., VAH, Clin. Instr., Dept. of Med., Chicago Med. Sch.; Hines, Ill. (4214)

1859. Coagulation Defects in Liver Disease.

Lyle A. Baker, M.D., Ch. Med. Serv. VAH; Irving A. Friedman, M.D., Clin. Asst. Prof., Dept. of Med., Chicago Med. Sch.; Gloucester A. Price, M.D., Staff Phys., Med. Serv., VAH; Hines, Ill. (4217)

1860. Determination of Urinary Excretion of Radiocobalt-Labeled Vitamin B_{12} by Cobalt Sulfide Precipitation.

David S. Kinnory, Ph. D., Biochem.; Ervin Kaplan, M.D., Act. Assoc. Dir. RI Serv.; Yvo T. Oester, M.D., Ph. D., Act. Dir. RI Serv.; Albert A. Imperato, Med. Biol. Tech.; Hines, Ill. (4340)

1861. Therapy of Hodgkin's Disease with "Immunologic" Agents Prepared by Doctor Rose of Houston, Texas.

William J. Donnelly, M.D., Sec. Ch. Hemat. Sec., VAH; Irving A. Friedman, M.D., Attend. Phys., Med. Serv., VAH, Asst. Prof. Med., The Chicago Med. Sch.; Armand Littman, M.D., Ch. Med. Serv., VAH; Hines, Ill. (10338)

1862. Identification of the Virus of Hepatitis in Human Blood.

Hugh D. Bennett, M.D., Ch. Med. Serv., VAH; Benjamin A. Rubin, Ph. D., Asst. Prof., Public Health and Prevent. Med., Baylor Univ.; Houston, Tex. (4373)

1863. The Effect of Homologous Bone Marrow Transfusions Upon the Survival Rate of Dogs Following Total Body Irradiation.

George L. Jordan, Jr., M.D., Ch. Surg. Serv.; Harry D. Barton, M.D., Ch. Radiol. Serv.; Riley P. Foster, M.D., Asst. Ch. Surg. Serv.; Houston, Tex. (4404)

1864. Development of a Method of Platelet Labeling.

Mary C. Morgan, M.D., Ch. RI Serv.; Jean J. Szafir, M.S., Biochem., RI Serv.; Houston, Tex. (4465)

1865. Alterations in Response of Arteriosclerotic and Non-arteriosclerotic Patients to ACTH While on Nicotinic Acid.

Jethro B. Rochelle, III, M.D., Staff Phys., Med., VAH; Ralph V. Ford, M.D., Attend. Phys. Intern. Med., VAH, Clin. Asst. Prof. Med. and Pharm., Baylor Univ.; Houston, Tex. (8964)

1866. Preparation of Tissue for Transplantation by Growth in Tissue Culture.

George L. Jordan, Jr., M D., Ch. Surg. Serv.; Houston, Tex. (8784)

1867. The Relationship of Glomerular Filtration Rate to Tm Phosphate in Humans.

John M. Lewis, M.D., Resident Med.; Ralph V. Ford, M.D., Attend. Phys. Intern. Med., VAH, Clin. Asst. Prof. Med. and Pharm., Baylor Med. Sch.; Houston, Tex. (8789)

1868. Report of Case of Homozygus C. Disease Co-existing With Lupus Erythematosus.

Thomas W. Cowan, M.D., Resident Med.; Hugh D. Bennett, M.D., Ch. Med. Serv.; Houston, Tex. (9126)

1869. The Rate of Synthesis of the Hemoglobin Moieties of Hemoglobin Molecular Disease.

Samuel R. Lerner, Ph. D., Asst. Ch. (Scien.) RI Serv.; Jethro B. Rochelle, III, M.D., Staff Phys.; Mary C. Morgan, M.D., Ch. RI Serv.; Houston, Tex. (10950)

1870. The Effect of Atheromatosis and Hypertension on Preserved Homologous Arterial Grafts.

George C. Morris, M.D., Attend. VAH, Asst. Prof. Surg., Baylor Univ.; George L. Jordan, Jr., M.D., Ch. Surg. Serv., VAH; Houston, Tex. (10959)

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1871. A Study of Erythrocytes of the Elderly Patient.

S. Werthammer, M.D., Cons., Path.; W. T. Whitman, A.B., Ch. Hemat. and Serol. Unit, Lab. Serv.; A. J. Beaumont, B.S., Ch. Clin. Microscopy and Microbiol. Unit, Lab. Serv.; Huntington, W. Va. (4812)

1872. Electrophoretic Patterns in the Blood of Elderly Patients.

G. M. Lyon, M.D., Dir. Prof. Serv.; J. H. Hoback, Ph. D., Cons., Phys. Chem.; Huntington, W. Va. (4814)

1873. A Study of the Anemias of the Elderly Patient.

S. Werthammer, M.D., Cons., Path.; E. L. Walsh, M.D., Ch. Med. Serv.; J. Daulton, B.S., Ch. Path. Tissue Unit, Lab. Serv.; Huntington, W. Va. (4816)

1874. Study of Blood Cholesterol in (a) Coronary Insufficiency and (b) Acute Coronary Occlusion.

Florence K. Hoback, M.D., Ward Phys.; Geraldine D. Crews, Med. Tech.; Huntington, W. Va. (10871)

1875. The Effect of Deep Radiation Therapy Upon the Intestinal Absorption of Vitamin B_{12}.

Paul C. Harding, M.D., Asst. Ch. RI Serv.; Indianapolis, Ind. (4797)

1876. Erythroid Aplasia and Thymoma.

George S. Anderson, M.D., Cons.; David C. Funk, M.D., Clin. Invest.; Richard E. Peterson, M.D., Dir. RI Research Unit; Iowa City, Iowa. (4836)

1877. Evaluation of Blood Cultures After Sigmoidoscopy.

Elwood Buchman, M.D., Asst. Ch. Med Serv.; Earl Berglund, B.S., Bact., Lab. Serv.; Iowa City, Iowa. (4845)

1878. Coagulation Studies in Conditions Having a High Incidence of Thromboembolic Phenomena.

John I. Davis, M.D., Med. Serv.; Jackson, Miss. (10911)

1879. Blood Components in the Dog: Normal Values.

Marie H. Carr, M.A., Biochem.; Paul R. Schloerb, M.D., Staff Surg.; Kansas City, Mo. (4963)

1880. The Equilibrium Between Chromium 51 Tagged Erythrocytes and Spleen.

Paul R. Schloerb, M.D., Staff Surg.; Marie H. Carr, M.A., Biochem.; Kansas City, Mo. (4982)

1881. The Iron and Iron-Binding Capacity of Serum in Certain Pathologic Conditions.

C. F. Gutch, M.D., Gen. Med. Serv.; S. C. Stevens, Ph. D., Research Biochem.; Lincoln, Nebr. (11011)

1882. Isolation of a Tissue Antithromboplastin.

Eugene J. Towbin, M.D., Ph. D., Exec. Secretary, Research Comm.; Little Rock, Ark. (5061)

1883. Hemoglobin Iron Turnover Rates in Normal Patients and in Sickle Cell Disease.

William H. Perkins, M.D., Ch. RI Serv.; James E. Doherty, M.D., Ch. Card. Sect.; Little Rock, Ark. (5089)

1884. Electrolyte Studies of Normal Human White Cells.

Eugene J. Towbin, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Little Rock, Ark. (10994)

1885. The Study of the Binding of Labeled Coombs' Serum by Red Cells.

H. Van Smith, Jr., M.D., Resident, Intern. Med., VAH; S. William Ross, M.D., Assoc. Prof. Med., Univ. of Arkansas Sch. of Med.; William H. Perkins, M.D., Ch. RI Serv., VAH; Little Rock, Ark. (10995)

1886. Permeability of Normal Human White Cells to Radioactive Sodium and Potassium.

Eugene J. Towbin, M.D., Ph. D., Asst. Dir., Prof. Serv. for Research; Little Rock, Ark. (10996)

1887. Measurement of Blood Viscosities in Normal Individuals and in Cardiac Patients.

F. Kellogg, M.D., Clin. Prof. Med., Univ. of California at Los Angeles; J. R. Goodman, Ph. D., Biochem., VAH; Long Beach, Calif. (5142)

1888. Treatment of Leukemia with Infusion of Leucocyte Homogenates.

Nathaniel B. Kurnick, M.D., Ch. Hemat. Sect.; Long Beach, Calif. (5145)

1889. Mechanism of the Lupus Erythematosus Cell Phenomenon.

N. B. Kurnick, M.D., Ch. Hemat. Sect., VAH; Robert L. Kernen, B.S., Tech., Univ. of California; Long Beach, Calif. (5157)

1890. Developing Techniques of Preparing Free Cell Suspension for Electron Microscope Studies.

J. R. Goodman, Ph. D., Biochem.; Marguerite Hiler, B.A., Research Asst., Univ. of California at Los Angeles Med. Sch.; Mamie Bennett, Tech.; Long Beach, Calif. (5159)

1891. Pathology in Abnormal White Blood Cells as Studied by Electron Microscope.

J. R. Goodman, Ph. D., Biochem., VAH; R. F. Baker, Ph. D., Cons. VAH, Assoc. Prof. Exper. Biophys., Univ. of Southern California Med. Sch.; Long Beach, Calif. (5160)

1892. Electron Microscopy of Normal and Abnormal Platelets.

J. R. Goodman, Ph. D., Biochem.; Ruth Bankston, Tech., VAH; Sam Rapaport, M.D., Assoc. Prof. Hemat., Univ. of Southern California Med. Sch.; Long Beach, Calif. (5161)

1893. Gradual Occlusion of Cerebral Blood Vessels With Radioactive Metals.

Robert W. Porter, M.D., Ch. Neurosurg. Sect.; Long Beach, Calif. (5226)

1894. The Effect of Cadmium Ion on the Blood Clotting Mechanism.

Ira D. Rosen, M.S., Biochem.; Joseph R. Goodman, Ph. D., Biochem.; Long Beach, Calif. (10725)

1895. Treatment of Radiation-Induced Bone Marrow Hypoplasia With Preserved Autogenous Bone Marrow.

Nathaniel B. Kurnick, M.D., Ch. Hemat. Sect.; Bernard H. Feder, M.D., Act. Ch. Radiol. Serv., VAH; Andrew Montano, B.S., Graduate Research Biochem., Univ. of California at Los Angeles Med. Sch.; Robert M. Nakamura, M.D., Resident, Path., VAH; James C. Gerdes, M.D., Resident, Path.; Long Beach, Calif. (10727)

1896. Chemical Means of Isolating Serum B-Lipoproteins in Various Species.

Warner H. Florsheim, Ph. D., Asst. Ch. (Scient.) RI Serv.; Joseph R. Goodman, Ph. D., Biochem.; Long Beach, Calif. (10728)

1897. Serum Thyrotropin Assay.

Warner H. Florsheim, Ph. D., Asst. Ch. (Scient.) RI Serv.; Albert D. Williams, Ph. D., Biochem. RI Serv.; Long Beach, Calif. (10729)

1898. Transfusion Reaction Resulting From A Low-Temperature Isoantibody (Anti-M).

Emmett B. Reilly, M.D., Cons. Hemat., VAH, Ch. Path., Orange County Gen. Hosp., Assist. Clin. Prof. Path., Univ. of Southern California; Sidney J. Klein, Ph. D., Head, Microbiol.-Immun., VAH; Long Beach, Calif. (10730)

1899. Treatment of Agammaglobulinemia by the Implantation of Fetal or Neonatal Spleen.

Nathaniel B. Kurnick, M.D., Ch. Hemat. Sect.; Long Beach, Calif. (10731)

1900. Pathophysiology of Pernicious Anemia.

Nathaniel B. Kurnick, M.D., Ch. Hemat. Sect.; Raymond J. McMahan, Jr., M.D., Resident, Hemat. Sect.; Burdette Newton, M.D., Resident, Hemat. Sect.; Long Beach, Calif. (10732)

1901. Studies of Purine Components in the Serum and Urine of Man.

M. Levin, M.D., Attend. Spec., VAC, Asst. Clin. Prof. Med., Univ. of California at Los Angeles Med. Center; R. Zuckerman, Ph. D., Research Fellow, Natl. Rheum. and Arth. Found.; W. Drell, Ph. D., Asst. Research Phys. Chem., Univ. of California at Los Angeles Med. Center; W. H. Blahd, M.D., Ch. RI Serv., VAC; Los Angeles, Calif. (5625)

1902. Rapid, Simple Methods for the Determination of Adrenaline, Noradrenaline and Other Catechol Amine Metabolites in Blood and Urine.

George R. Kingsley, M.S., Ch. Biochem.; Roscoe R. Schaffert, A.B., Biochem.; Los Angeles, Calif. (5645)

1903. The Fractionation of Porphyrins in Blood and Urine.

Roscoe R. Schaffert, A.B., Biochem.; George R. Kingsley, M.S., Ch. Biochem.; Los Angeles, Calif. (5647)

1904. A Simplified Fluorometric Method for the Determination of Estrogens in Blood and Urine.

George R. Kingsley, M.D., Ch. Biochem.; Roscoe R. Schaffert, A.B., Biochem.; Los Angeles, Calif. (5662)

1905. A Rapid Simplified Method for the Complete Fractionation of Serum Proteins.

George R. Kingsley, M.S., Ch. Biochem.; Gloria Getchell, A.B., Biochem.; Los Angeles, Calif. (5663)

1906. The Fractionation of Serum Lipids.

Roscoe R. Schaffert, A.B., Biochem.; Los Angeles, Calif. (5664)

1907. Development of a More Active and Specific Substrate for More Rapid Lipase Determinations.

George R. Kingsley, M.S., Ch. Biochem.; Los Angeles, Calif. (5665)

1908. Experimentation on Dogs to Evaluate the Possibility of Treating Acute Leukemia in the Human.

Joseph Abrahamson, M.D., Resident Path.; William A. Gore, M.D., Ch. Radiotherapy; Los Angeles, Calif. (5718)

1909. The Chromatographic Fractionation of Serum Lipoproteins.

George R. Kingsley, M.S., Ch. Biochem.; Roscoe R. Schaffert, A.B., Biochem.; Los Angeles, Calif. (6729)

1910. Abnormalities of Erythrocyte Metabolism.

Irwin M. Weinstein, M.D., Ch. Hemat. Sect.; Los Angeles, Calif. (5732)

1911. The Mechanism of Hemorrhagic Disorders Associated With Massive Blood Transfusions at Surgery and With Hemolytic Transfusion Reactions.

Ben G. Fishkin, M.D., Act. Ch. Lab. Serv.; Los Angeles, Calif. (5734)

1912. Differences in Electrolyte Composition and Potassium Exchange Associated with *In Vivo* Aging of Human Erythrocytes.

E. R. Borun, M.D., Attend. Spec. Intern. Med., VAC, Asst. Prof. Med., Univ. of California at Los Angeles Med. Center; S. Perry, M.D., Attend. Spec. Med., VAC, Asst. Prof. Med., Univ. of California at Los Angeles Med. Center; W. H. Blahd, M.D., Ch. RI Serv., VAC; Los Angeles, Calif. (5852)

1913. Study of New Systematic Hemostatic Agents in Post-Transurethral Resection Bleeding.

Donald E. Burke, M.D., Attend. Urol., VAC, Clin. Instr. Urol., Univ. of California at Los Angeles Med. Center; William G. Clark, Ph. D., Sect. Ch. Phy.-Pharm., VAC; Harry DeHaven, M.D., Sr. Resident Urol., VAC; Robert S. Pogrund, Ph. D., Space Phy., Space Tech. Lab., Inc.; Los Angeles, Calif. (5753)

1914. Origin, Source, and Life Span of Leukocytes.

Seymour Perry, M.D., Attend. Spec. Med., VAC, Asst. Prof. Med., Univ. of California at Los Angeles Med. Center; John S. Lawrence, M.D., Cons. Intern. Med., VAC, Prof. Med., Univ. of California at Los Angeles Med. Center; Charles G. Craddock, Jr., M.D., Attend. Spec. Intern. Med., VAC, Assoc. Prof. Med., Univ. of California at Los Angeles Med. Center; George R. Pieper, M.D., Research Hemat., Univ. of California at Los Angeles Med. Center; William H. Blahd, M.D., Ch. RI Serv., VAC; Los Angeles, Calif. (5857)

1915. A Correlative Study of the Erythrokinetics of Anemia Associated With Rheumatoid Arthritis.

Irwin M. Weinstein, M.D., Ch. Hemat. Sect.; Los Angeles, Calif. (5861)

1916. The Detection of Hemolytic Disorders in Patients With Neoplastic Diseases by Red Blood Cell Survival Studies With Radioactive Sodium Chromate (Cr–51)

W. H. Blahd, M.D., Ch. RI Serv.; D. Plotkin, M.D., Phys. Cancer Chemotherapy; E. T. Peterson, B.A., Ch. Serol.; Los Angeles, Calif. (5863)

1917. The Study of Blood Volume in the Pre- and Post-operative Patient; Its Clinical Value and Evaluation of Current Methods.

Penrose L. Desser, M.D., Surg. Cons.; Wm. H. Blahd, M.D., Ch. RI Serv.; C. R. Sowers, M.D., Resident Anes.; Los Angeles, Calif. (8456)

1918. New Direct Colorimetric Method for the Determination of Iron Binding Capacity in Serum.

George R. Kingsley, M.S., Ch. Biochem.; Gloria Getchell, B.A., Biochem.; Los Angeles, Calif. (9182)

1919. Determination of Blood Ammonia.

George R. Kingsley, M.S., Ch. Biochem.; Gloria Getchell, B.A., Biochem.; Los Angeles, Calif. (9183)

1920. The Determination of Blood Hemoglobin by Flame Photometry.

George R. Kingsley, M.S., Ch. Biochem.; Gloria Getchell, B.A., Biochem.; Los Angeles, Calif. (9184)

1921. A Study of the Effect of Chelating Agents in Acute Iron Toxicity in the Dog.

William C. Figueroa, M.D., Attend. Phys., Intern. Med., VAC, Asst. Prof. Med., Univ. of California at Los Angeles Med. Cent.; Seymour Perry, M.D., Attend. Spec. Med., VAC, Asst. Prof. Med., Univ. of California at Los Angeles Med. Cent.; Samuel H. Bassett, M.D., Asst. Dir. Prof. Serv. Research, VAC; Los Angeles, Calif. (9883)

1922. Studies on the *In Vitro* Effect of Iron and Copper in Trace Amounts on Prothrombin Activity.

Jasper P. Lewis, M.S., Ch. Biochem. Dept.; Louisville, Ky. (5427)

1923. The Relationship of Plasma Bicarbonate to Other Titratable Anions over the Physiological Range.

Jasper P. Lewis, M.S., Ch. Biochem. Dept.; Louisville, Ky. (5428)

1924. Hemochromatosis. Some Interesting Aspects with Two Case Reports.

Louis Y. Peskoe, M.D., Asst. Ch. Med.; Louisville, Ky. (10760)

1925. Iron Deficiency Anemia: A Case with Multiple Etiologic Factors.

Louis Y. Peskoe, M.D., Asst. Ch. Med.; Louisville, Ky. (10761)

1926. A Simplified Procedure for Determination of Chronic Blood Loss.

Jerre L. Noland, Ph. D., Ch. Med. Research Lab.; Mildred C. Edinger, B.S., Med. Tech.; Paul X. Callahan, Ph. D., Research Biochem.; Louisville, Ky. (10762)

1927. A Biochemical Study of Hemoglobin and Plasma Proteins.

Frank S. Schlenker, Ph. D., Dir. Biochem. Research Sec., Med. Research Lab.; Malcolm V. Parker, M.S., Tech. Virus-Tissue Culture Sec., Med. Research Lab.; Memphis, Tenn. (6013)

1928. Intravascular Hemolysis in Liver Diseases, Hemolytic Anemias and Burns.

Hans N. Naumann, M.D., Ch. Biochem. Sec. Lab. Serv.; Memphis, Tenn. (6015)

1929. Cultivation of Human Leukocytes.

Wolcott B. Dunham, M.D., Dir. Med. Research Lab.; Frances M. Ewing, Tech., Virus-Tissue Culture Sec., Med. Research Lab.; Memphis, Tenn. (9023)

1930. Errors of Automatic Blood Sampling Due to Cell Sedimentation and Glycolysis.

Hans N. Naumann, M.D., Ch. Biochem. Sec.; Abbie M. Olsen, A.B., Tech. Biochem. Sec.; Joseph M. Young, M.D., Ch. Lab. Serv.; Memphis, Tenn. (10473)

1931. Antipneumococcal Antibodies and Electrophoretic Patterns in Multiple Myeloma and Agammaglobulinemia.

Horace H. Zinneman, M.D., Ch. Blood Transfusion Sec.; Minneapolis, Minn. (6166)

1932. Effect of Alcohol on Adrenal, Pituitary, and Renal Function.

Richard P. Doe, M.D., Ch. Chem. Sec.; Edmund B. Flink, M.D., Ph.D., Ch. Med. Serv.; Ruth M. Engst, B.S., Research Med. Tech.; Minneapolis, Minn. (6177)

1933. Macroglobulins and Cryoglobulins.

Horace H. Zinneman, M.D., Ch. Blood Transfusion, Sect.; Harry Glenchur, M.D., U.S.P.H.S., Research Follow, VAH; David R. Briggs, Ph.D., Prof. of Agri. Biochem., Univ. of Minn.; Minneapolis, Minn. (6183)

1934. The Riboflavin Compounds in the Serum of Patients with Porphyria.

H. H. Zinneman; S. W. Schwartz; A. S. Prasad; Minneapolis, Minn. (6193)

1935. Study of the Effect of Endocrine Dysfunction on Hemopoiesis.

Allen Silbergleit, M.D., Resident, Surg. Serv.; Minneapolis, Minn. (6231)

1936. The Effect of Spleen Cell Injection on Fatal Body Irradiation in the Dog.

Lloyd L. Olson, M.D., Resid. Surg. Serv.; William D. Kelly, M.D., Ph.D., Dir. Lab. of Exper. Surg.; Minneapolis, Minn. (6234)

1937. Two Hour Schilling Test.

Alfred Doscherholmen, M.D., Clin. Invest.; Paul S. Hagen, M.D., Ch. Hemat. Sect.; Minneapolis, Minn. (6318)

1938. Time Pattern in the Urinary Excretion of Radioactivity in the Schilling Test.

Alfred Doscherholmen, M.D., Clin. Invest.; Minneapolis, Minn. (6319)

1939. Determination of the Organ Site Responsible for the Delay in Normal Vitamin B_{12} Plasma Absorption.

Alfred Doscherholman, M.D., Clin. Invest.; Paul S. Hagen, M.D., Ch. Hemat. Sect.; Minneapolis, Minn. (6320)

1940. The Effect of Autologous Tissue of Hematopoietic Origin on Lethal Total Body Irradiation in the Dog.

Donald L. Lamb, M.D., Resident, Surg. Serv.; William D. Kelley, M.D., Ph.D., Dir. Lab. of Exper. Surg.; Minneapolis, Minn. (8901)

1941. Plasma Absorption of Cyanocobalamin Using Small Amounts of Cobalt^{60}-Vitamin B_{12}.

Alfred Doscherholmen, M.D., Clin. Invest.; Paul S. Hagen, M.D., Ch. Hemat. Sect.; Minneapolis, Minn. (9786)

1942. Investigations into the Basic Mechanism of the Schilling Test.

Alfred Doscherholmen, M.D., Clin. Invest.; Paul S. Hagen, M.D., Ch. Hemat. Sect.; Minneapolis, Minn. (9787)

1943. Vitamin B_{12} Absorption Before and After Meals.

Alfred Doscherholmen, M.D., Clin. Invest.; Paul S. Hagen, M.D., Ch. Hemat. Sect.; Minneapolis, Minn. (9788)

1944. Organ Distribution of Radioactivity After Orally Administered Radiolabeled Cyanocobalamin.

Alfred Doscherholmen, M.D., Clin. Invest.; Paul S. Hagen, M.D., Ch. Hemat. Sect.; Minneapolis, Minn. (9789)

1945. Plasma Absorption of Cyanocobalamin Following Laparotomy.

Alfred Doscherholmen, M.D., Clin. Invest.; Allen Silbergleit, M.D., Resident, Surg. Serv.; Paul S. Hagen, M.D., Ch. Hemat. Sect.; Minneapolis, Minn. (9790)

1946. Measurement of Leukocyte Phosphatase in Various Hematologic Disorders.

Frank R. Hieber, M.D., Resident, Med. Serv.; Paul S. Hagen, M.D., Ch. Hemat. Sect.; Donna H. Ripley, B.S., Research Med. Tech.; Minneapolis, Minn. (9820)

1947. Urinary Formiminoglutamic Acid and Serum Cyanocobalamin in Mactrocytic Anemias.

Frank R. Hieber, M.D., Resident, Med. Serv.; Paul S. Hagen, M.D., Ch. Hemat. Sect.; Donna H. Ripley, B.S., Research Med. Tech.; Minneapolis, Minn. (9821)

1948. Comparison of Different Methods To Estimate the Iron Stores of the Body.

Paul S. Hagen, M.D., Ch. Hemat. Sect.; Donna H. Ripley, B.S., Research Med. Tech.; Minneapolis, Minn. (9822)

1949. Evaluation of Serum Cyanocobalamin Studies in the Early Diagnosis of Leukemia.

Paul S. Hagen, M.D., Ch. Hemat. Sect.; Donna H. Ripley, B.S., Research Med. Tech.; Minneapolis, Minn. (9823)

1950. Comparison of Serum Cyanocobalamin Levels in Pernicious Anemia on Differing, Long-range Treatment Schedules.

Paul S. Hagen, M.D., Ch. Hemat. Sect.; Donna H. Ripley, B.S., Research Med. Tech.; Minneapolis, Minn. (9824)

1951. Assay of Intrinsic Factor Activity by Radiolabeled Cyanocobalamin Absorption in Previously Diagnosed Pernicious Anemia.

Paul S. Hagen, M.D., Ch. Hemat. Sect.; Donna H. Ripley, B.S., Research Med. Tech.; Minneapolis, Minn. (9825)

1952. Hodgkin's Disease: A Study of Certain Immunologic Abnormalties.

William D. Kelly, M.D., Ph. D., Dir., Lab. Exper. Surg., VAH; Robert A Good, M.D., Ph. D., Prof., Dept. Pediat., Univ. of Minn.; Richard L. Varco, M.D., Ph. D., Cons. VAH, Prof. Surg., Univ. of Minn.; Donald L. Lamb, M.D., Resident Surg., VAH; Minneapolis, Minn. (9826)

1953. Anemia Following Operations on the Upper Gastrointestinal Tract.

William D. Kelly, M.D., Ph. D., Dir., Lab. Exper. Surg.; Donald E. Wohlrabe, M.D., Resident, Surg. Serv.; Minneapolis, Minn. (9827)

1954. Automatic Temperature Compensation for Continuous pH and Oxygen Tension Recording in Flowing Blood.

Frank Gollan, M.D., Asst. Dir. Prof. Serv. for Research, VAH; T. G. Arnold, Jr., Electronics Cons., VAH, Electrical Eng., Vanderbilt Univ. Med. Sch., Nashville, Tenn.; Robert G. Dent, Electronics Equip. Repair, RI Serv., VAH, Nashville, Tenn. (5392)

1955. Post-Surgical Clotting Defects.

Norman Ende, M.D., Ch. Clin. Lab., VAH, Nashville, Tenn.; Harold R. Roberts, M.D., Dept. Med., VAH, Fresno, Calif. (9964)

1956. Ferrokinetic and Erythrocyte Survival Studies.

Charles C. Sprague, M.D., Assoc. Prof. Med., Tulane; Walter J. Stucky, M.D., Instr. Med., Tulane; Robert L. Andreae, M.D., Resident, Med., VAH; Emanuel H. Bresler, M.D., Asst. Dir. Prof. Serv. for Research, Ch. RI Serv., VAH; New Orleans, La. (6447)

1957. An Abbreviated Method for Plasma Iron Clearance.

Charles C. Sprague, M.D., Assoc. Prof. Med., Tulane; Warren A. Belding, M.D., Resident, Med., VAH; Robert L. Andreae, M.D., Resident, Med.; George W. Beamon, B.S., Phys. Science Tech., RI Serv.; New Orleans, La. (11104)

1958. Homologous Transplantation of Bone Marrow in Patients With Secondary Aplastic Anemia.

Robert D. Sullivan, M.D., Ch. Oncol. Sect.; Edward Miller, M.D., Cancer Chemotherapy Program; New York, N.Y. (6505)

1959. Phospholipids and Blood Coagulation.

Aaron J. Marcus, M.D., Act. Ch. Hemat. Sect.; New York, N.Y. (6509)

1960. Clinical Investigation of the Potency of Various Intrinsic Factors Preparations.

Aaron J. Marcus, M.D., Act. Ch. Hemat. Sect.; New York, N.Y. (8719)

1961. Platelet Phosphatides in Uremia.

Aaron J. Marcus, M.D., Act. Ch. Hemat. Sect.; New York, N.Y. (11017)

1962. Studies on the Metabolic Turnover and Tissue Distribution of Haptoglobin.

E. Franklin, M.D., Asst. Prof. Med., New York Univ. Coll. Med.; M. A. Rothschild, M.D., Ch. RI Serv., VAH; M. Oratz, Ph. D., Asst. Ch. RI Serv., VAH; New York, N.Y. (11018)

1963. An Investigation of Blood Serum in Mental Diseases.

Philip Gussion, M.D., Ch. Acute Intensive Treatment Serv.; Andrew Kuna, Ph. D., Biochem.; John J. Scimone, B.S., Bact.; Northport, N.Y. (10192)

1964. Plasma Lipids in Patients with Multiple Sclerosis.

Bruno Gerstl, M.D., Ch. Lab. Serv.; James K. Smith, M.D., Ch. Psychiat. & Neur. Serv.; M. Jeanne Kahnke, Ph. D., Biochem., Lab. Serv.; Oakland, Calif. (6641)

1965. Erythrocyte Magnesium Levels in Anemia.

William O. Smith, M.D., Asst. Ch. RI Serv.; Donald J. Baxter, Tech.; Oklahoma City, Okla. (6842)

1966. Manganese Antagonism of Cobalt Induced Polycythemia.

Allen R. Hennes, M.D., Asst. Ch. Med. Serv.; Robert M. Bird, M.D., Attend. Phys.; Oklahoma City, Okla. (6852)

1967. The Erythropoietic Response of Patients With Emphysema to Acute Blood Loss.

Walter H. Whitcomb, M.D., Research Asst.; James F. Hammarsten, M.D., Ch. Med. Serv.; Theda B. Driscoll, Tech.; Philip C. Johnson, M.D., Ch. RI Serv.; Oklahoma City, Okla. (6868)

1968. Studies on the Plasma Erythropoietic Factor in Patients With Emphysema.

Walter H. Whitcomb, M.D., Research Asst.; James F. Hammarsten, M.D., Ch. Med. Serv.; Robert M. Bird, M.D., Attend. Phys.; Philip C. Johnson, M.D., Ch. RI Serv.; Oklahoma City, Okla. (6877)

1969. Erythrocyte Stimulating Factor in Hypoxia With and Without Secondary Polycythemia.

Walter H. Whitcomb, M.D., Research Asst.; James F. Hammarsten, M.D., Ch. Med. Serv.; Robert M. Bird, M.D., Attend. Phys.; Philip C. Johnson, M.D., Ch. RI Serv.; Oklahoma City, Okla. (6933)

1970. Histochemical Studies With Tetrazolium Salts I. Dihydroorotic Acid Dehydrogenase; II. Xanthine Oxidase; III. Glucose-6-Phosphate Dehydrogenase; IV. Lactic Dehydrogenase.

Alexander H. Woods, M.D., Clin. Invest.; R. E. Bettigole, M.D., Resident Phys.; Oklahoma City, Okla. (9998)

1971. Attempt to Determine Erythrocyte Survival by Total Body Counting.

Carmen E. Bloedow, M.D., Resident Phys.; Philip C. Johnson, M.D., Ch. RI Serv.; Oklahoma City, Okla. (10017)

1972. Studies in Preparative Zone Electrophoresis.

Fred L. Humoller, Ph. D., Prin. Scien.; Joseph M. Holthaus, M.D., Ch. Med. Serv., VAH; John R. Walsh, M.D., Cons. VAH, Dir. Dept. of Med., Creighton Univ.; Omaha, Nebr. (6712C3)

1973. A Simple, Rapid Method of Determining Simultaneous Plasma and Red Cell Volumes Using One Radioisotope.

Richard E. Ogborn, M.D., Ch. RI Serv.; Arthur L. Dunn, Ph. D., Asst. Ch. Scien. RI Serv.; Alan J. Blotcky, B.S., Asst. Ch. RI Serv.; Omaha, Nebr. (6769)

1974. Plasma Volume Changes in Postgastrectomy "Dumping Syndrome."

Richard E. Ogborn, M.D., Ch. RI Serv.; Jack R. Harper, M.D., Resident, Surg. Serv.; Omaha, Nebr. (6771)

1975. Red Cell Volume Changes in Patients With Pulmonary Tuberculosis.

Richard E. Ogborn, M.D., Ch. RI Serv.; Dorothy M. Weiner, B.A., Phys. Science Tech.; Omaha, Nebr. (6774)

1976. Neutron Activation Analysis of Trace Elements Within the Circulating Blood.

Richard E. Ogborn, M.D., Ch. RI Serv.; Arthur L. Dunn, Ph. D., Asst. Ch. Scien. RI Serv.; Alan J. Blotcky, B.S., Asst. Ch. RI Serv.; Omaha, Nebr. (6777)

1977. The Investigation of Iron Metabolism and Iron Space in Individuals With Hemachromatosis.

Richard E. Ogborn, M.D., Ch. RI Serv., VAH; Douglas W. Terry, M.D., Asst. Prof. Med., Creighton Univ. Sch Med.; Omaha, Nebr. (6782)

1978. Determination of Plasma Trapped by Red Cells During Microhematocrit Determinations.

Richard E. Ogborn, M.D., Ch. RI Serv.; Omaha, Nebr. (6790)

1979. Ammonia Determination in Venous and Arterial Blood.

Anthony J. Barak, Ph. D., Biochem.; Joseph M. Holthaus, M.D., Ch. Med. Serv.; Fred L. Humoller, Ph. D., Prin. Scien.; Lucille Menebroker, B.S., Biochem.; Omaha, Nebr. (10222)

1980. Lung Compliance in Polycythemia.

Theodore Rodman, M.D., Staff Phys., Cardiopulm. Func. Lab.; Philadelphia, Pa. (7128)

1981. The Oxyhemoglobin Dissociation Curve in Anemia.

Theodore Rodman, M.D., Staff Phys., Cardiopulm. Function Lab.; Henry P. Close, M.D., Ch. Med. Serv.; May K. Purcell, Ch. Cardiopulm. Func. Tech.; Philadelphia, Pa. (7130)

1982. The Oxyhemoglobin Dissociation Curve in the Common Hemoglobinopathies.

Theodore Rodman, M.D., Staff Phys., Cardiopulm. Function Lab.; Henry P. Close, M.D., Ch. Med. Serv.; Richard Cathcart, M.D., Cons. Pulm. Phy.; May K. Purcell, B.S., Ch. Cardiopulm. Func. Tech.; Philadelphia, Pa. (7131)

1983. A Study of Hyperkalemia Associated With Myeloproliferative Syndrome.

Ralph M. Myerson, M.D., Asst. Ch. Med. Serv. and Asst. Dir. Prof. Serv. Research, VAH; Abraham Frumin, M.D., Attend. Hemat., VAH, Prof. Hemat., Woman's Med. Coll.; Philadelphia, Pa. (9935)

1984. The Oxyhemoglobin Dissociation Curve in Disease States Characterized by Arterial Oxygen Unsaturation.

Theodore Rodman, M.D., Staff Phys.; Henry P. Close, M.D., Ch. Med. Serv.; May K. Purcell, Ch. Tech., Cardiopulm. Func. Lab.; Philadelphia, Pa. (9936)

1985. Blood Coagulation and Electric Conductivity.

Siegbert Bornstein, M.D., Ch. Path. Serv.; Joseph L. Rabinowitz, Ph. D., Dir. Research & Develop., RI Serv.; Philadelphia, Pa. (9937)

1986. Investigation of Hemoglobin Electrophoretic Patterns in Negro Patients.

Ralph M. Myerson, M.D., Asst. Ch. Med. Serv. and Asst. Dir. Prof. Serv. Research; Esther Harrison, A.B., Phy. Scien. Aid, Med. Research Lab.; Herbert W. Lohmuller, M.D., Resident, Med. Serv.; Philadelphia, Pa. (9938)

1987. Sources of Variance in Human Plasma Volume Determination.

John E. Overall, Ph. D., Asst. Prof. Psychol., Univ. North Carolina; Clyde M. Williams, M.D., Biochem., RI Serv., VAH; Pittsburgh (Univ. Dr.), Pa. (11077)

1988. The Effect of Fraction V (Cohn's) on the Local Shwartzman Reaction.

William R. Merchant, M.D., Asst. Dir. Prof. Serv. Research; Thomas A. Gigliotti, Biochem. Research Lab.; Pittsburgh (Univ. Dr.), Pa. (11111)

1989. Studies on Fibrinogen and Fibrinolysin Levels.

Robert E. Mass, M.D., Sect. Ch., Hemat.; Portland, Oreg. (8738)

1990. Determination of Variations in Serum Glutamic Oxaloacetic Transaminase Produced by Various Surgical Procedures, With Particular Reference to Urological and Thoracic Surgical Procedures.

L. W. Ritzmann, M.D., Ch., Med. Serv.; B. M. Parker, M.D., Sect. Ch. Card.; L. M. Goldberg, M.D., Resident, Med. Serv.; J. D. Bristow, M.D., Resident, Med. Serv.; C. A. MacFarlane, M.D., Sect. Ch. Urol. Surg.; J. A. Aalpoel, M.D., Sect. Ch. Thoracic Surg.; Portland, Oreg. (8740)

1991. The Effect of Dicumarol Induced Hypoprothrombinemia on Plasma Viscosity.

Harold W. Harrower, M.D., Ch. Surg. Serv.; Providence, R.I. (10153)

1992. The Effect of Variations in Plasma Fibrinogen Concentration on Plasma Viscosity.

Harold W. Harrower, M.D., Ch. Surg. Serv.; Providence, R.I. (10154)

1993. The Effect of Operative Trauma on Plasma Viscosity.

Harold W. Harrower, M.D., Ch. Surg. Serv.; Providence, R.I. (10155)

1994. Further Studies of Blood Arginase.

Michael T. Baccof, Biochem.; Providence, R.I. (7163)

1995. Techniques for Rapid, Accurate Counting of Blood Cells (Red, White, and Platelet).

Thomas V. Feichtmeir, M.D., Ch. Clin. Path. Serv.; Kathleen Nigon, Lab. Tech.; D. B. Bird, Biochem.; Mary Ann Hannan, Lab. Tech.; San Francisco, Calif. (7446)

1996. The Use of Liquid CO_2 in the Control of Nasal and Other Inaccessible Hemmorhage.

John A. T. Ross, M.D., Resident Surg.; San Francisco, Calif. (7452)

1997. Determination of Operative Blood Loss With Cr^{51}.

John L. Wilson, M.D., Ch. Surg.; Wm. A. Reilly, M.D., Ch. RI Serv.; G. L. Searle, Ph. D., Ch. Scien., RI Serv., VAH; Kenneth G. Scott, Ph. D., Cons., VAH; Dir. & Radiol., Radioact. Center; T. V. Feichtmeir, M.D., Ch. Clin. Lab., VAH; San Francisco, Calif. (9013)

1998. Absorption of Blood From the Pericardial and Pleural Cavities.

John L. Wilson, M.D., Ch. Surg., VAH; Chester E. Herrod, M.D., Attend. VAH; Clin. Instr. Surg., Stanford Sch. of Med.; G. L. Searle, Ph. D., Ch. Scien., RI Serv.; T. V. Feichtmeir; M.D., Ch. Clin. Lab.; Wm. A. Reilly, M.D., Ch. RI Serv.; Kenneth G. Scott, Ph. D., Attend. VAH, Dir. & Radiol., Radioactivity Ctr., Prof. Exper. Radiol., Univ. of California; San Francisco, Calif. (9776)

1999. The Influence of Venoarterial Shunting.

John L. Wilson, M.D., Ch. Surg., VAH; Chester E. Herrod, M.D., Attend. VAH, Clin. Instr. Surg., Stanford Univ. Sch. of Med.; San Francisco, Calif. (9777)

2000. Studies on the Anti-Bacterial Activities of Serum.

Don C. Wood, Ph. D., Biochem.; Lurrine Burgess, B.A., Tech.; Ethel Lynn Solomon, B.A., Tech.; Salt Lake City, Utah. (7376)

2001. Tissue Culture Technique and Antibody Production.

William S. Tanner, M.S., Bact.; Don C. Wood., Ph. D., Biochem.; Salt Lake City, Utah. (7377)

2002. Determination of Vitamin B_{12} Blood Serum Level in Tropical Sprue Patients Presenting Megaloblastic Anemia or Peripheral Macrocytic Anemia.

James A. Halsted, M.D., Dir. Prof. Serv., VAH, Syracuse, N.Y.; Rafael Rodríguez-Molina, M.D., Asst. Dir. Prof. Serv. for Research, VAH; San Juan, P.R. (7481)

2003. Attempt at Reproduction of Leukemia in Laboratory Animals by Intraperitoneal Injection of Cerebrospinal Fluid From Leukemia Patients.

Dr. R. Menendez Corrada, Ch. Hemat. Sec.; Mrs. Amina R. de Sala, Med. Tech.; San Juan, P.R. (7496)

2004. Alkaline Phosphatase Activity of Granulocytes in Various Diseases and in Healthy Individuals.

R. Menendez-Corrada, M.D., Ch. Hemat. Sec.; Amina Rivera de Sala, M.T., Med. Biol. Tech., Gen. Med. Research Lab.; San Juan, P.R. (8827)

2005. Studies in Tropical Eosinophilia.

José A. de Jesús, M.D., Act. Ch. GI & Allergy Sec.; Eli A. Ramirez, M.D., Ch. Med. Serv.; Pedro H. Garcia-Pont, M.D., Ward Officer; San Juan, P.R. (9226)

2006. Relation of Plasma and Myeloma Cells to Blood Coagulation.

R. Menendez-Corrada, M.D., Ward Phys., Med. Serv.; San Juan, P.R. (11041)

2007. Erythropoietin Assay in Refractory Anemia.

Neil I. Gallagher, M.D., Clin. Invest.; John M. McCarthy, M.D., Staff Phys.; Robert D. Lange, M.D., Senior Staff Phys.; St. Louis, Mo. (7712)

2008. Studies on the Hematological Effects of Fasting.

John M. McCarthy, M.D., Staff Phys.; Neil I. Gallagher, M.D., Clin. Invest.; Robert D. Lange, M.D., Senior Staff Phys.; Kathleen T. Hart, Ph. D., Biochem. RI Serv.; St. Louis, Mo. (7716)

2009. Studies on *In Vitro* Hemin Synthesis by Rabbit Bone Marrow Cells.

John M. McCarthy, M.D., Staff Phys.; Neil I. Gallagher, M.D., Clin. Invest.; Robert D. Lange, M.D., Senior Staff Phys.; Kathleen T. Hart, Ph. D., Biochem. RI Serv.; St. Louis, Mo. (7717)

2010. Studies on the *In Vivo* and *In Vitro* Erythropoietic Effects of Cobalt.

John M. McCarthy, M.D., Staff Phys.; Robert D. Lange, M.D., Sen. Staff Phys.; Neil I. Gallagher, M.D., Clin. Invest.; St. Louis, Mo. (7718)

2011. Studies on the Hormonal Control of Erythropoiesis.

Robert D. Lange, M.D., Sr. Staff Phys.; Neil I. Gallagher, M.D., Clin. Invest., St. Louis, Mo. (9714)

2012. Nature and Importance of Auto-Antibodies for Circulating Blood Elements in Acquired Hemolytic Anemia, Primary Thrombocytopenic Purpura and Diffuse Collagen Disease.

Russell S. Weiser, Ph. D., Prof. Microbiol., Univ. Washington; Robert S. Evans, M.D., Ch. Med. Serv., VAH.; Seattle, Wash. (7590)

2013. A Bedside Method for the Determination of Serum Potassium.

Belding H. Scribner, M.D., Asst. Prof. Med., Univ. of Wash.; Seattle, Wash. (7591)

2014. Histochemical Study of Alkaline Phosphatase in Leukocytes of Peripheral Blood and Bone Marrow.

Kenneth P. Knudtson, M.D., Asst. Ch. Lab. Serv.; Seattle, Wash. (7592)

2015. Assay of Auto Antibody for Red Cells by Studies of Rates of Dissociation of Antibody From Red Cells.

Robert S. Evans, M.D., Ch. Med. Serv., VAH; Margaret N. Bingham, M.D., Research Instr., Microbiol., Univ. of Washington; Seattle, Wash. (9252)

2016. Hemolytic System Associated With Mucoid Enteritis of Rabbits.

Robert S. Evans, M.D., Ch. Med. Serv., VAH; Margaret N. Bingham, M.D., Research Instr., Microbiol., Univ. of Washington; Seattle, Wash. (9253)

2017. The Effect of Nephrectomy on Hemopoiesis in the Rat.

Ralph Goldman, M.D., Ch. Med. Serv.; Bernard M. Siegel, M.D., Staff Phys.; Sepulveda, Calif. (7518)

2018. Electrophoretic Studies of Human Serum Protein.

Anthony T. Ladd, M.D., Ch. Hemat. Sect. Med. Serv.; Syracuse, N.Y. (7767)

2019. Cobalt^{60} Labeled Vitamin B_{12} Absorption as Measured by a Blood Assay Technique.

James A. Halsted, M.D., Dir. Prof. Serv.; Robert B. Chodos, M.D., Ch. RI Serv.; Syracuse, N.Y. (8728)

2020. Abnormal Hemoglobins in Various Anemias.

Anthony T. Ladd, M.D., Ch. Hemat. Sect. Med. Serv.; Charles N. Remy, Ph. D., Prin. Scien. Med. Research; Syracuse, N.Y. (7812)

2021. An Attempt to Establish Better Clinical Criteria for the Evaluation of Blood Volume.

Lloyd S. Rogers, M.D., Ch. Surg. Serv., VAH; William R. Chaffee, M.D., Instr. Med., State Univ. of New York Coll. of Med.; John Duggan, M.D., Clin. Assoc. Prof. Med., State Univ. of New York Coll. of Med.; Robert B. Chodos, M.D., Ch. RI Serv., VAH; Syracuse, N.Y. (7819)

2022. Blood Production and Destruction in Hematologic Disorders.

Robert B. Chodos, M.D., Ch. RI Serv.; Syracuse, N.Y. (7820)

2023. An Investigation of the Mechanism of the Anemia of Chronic Renal Disease.

Robert B. Chodos, M.D., Ch. RI Serv.; Syracuse, N.Y. (7823)

2024. The Absorption of Iron in the Small Intestine.

Robert B. Chodos, M.D., Ch. RI Serv.; Syracuse, N.Y. (7828)

2025. The Erythropoietic Capacity of Patients with the Anemia of Chronic Renal Disease.

Robert B. Chodos, M.D., Ch. RI Serv.; Lawrence G. Raisz, M.D., Clin. Invest.; Syracuse, N.Y. (7829)

2026. The Study of Sickle Cell Diseases.

Roland T. Smoot, M.D., Ward Phys. Med. Serv.; Howard W. Kenney, M.D., Dir. Prof. Serv.; Daniel J. Thompson, M.D., Sec. Ch. Med. Infirmary Sect.; James D. Trader, M.D., Ward Phys. Med. Serv., VAH; Thomas W. Campbell, M.D., Pediatrician, John A. Andrew Hosp., Tuskegee Inst.; Russell W. Brown, Ph. D., Dir. Carver Research Found., Tuskegee Inst.; Tuskegee, Ala. (7928)

2027. A Study of the Coagulation Systems with Reference to Establishing Normal Values, Studying Abnormalities, and Determining a Practical Routine Procedure for Use in Clinical Problems.

Marjorie Sirridge, M.D., Cons. Hemat.; Keith S. Bowman, Super. Chem. (Biochem.); Wadsworth, Kans. (8036)

2028. The Effect of Carcinostatic Drugs on the Incorporation of Radio-Labeled Precursors of Nucleic Acid in Leukemia.

William V. C. Leahy, Ph. D., Phy. RI Serv., VAH, Washington, D.C.; Lester W. Fix, M.D., Asst. Ch. Clin. Lab., VAC; Martinsburg, W. Va. (8001)

2029. Factors Influencing Myelopoiesis as Studied by the Rate of Repopulation of the Femoral Marrow in the Supralethally Irradiated Mouse Treated With Isologous Bone Marrow.

J. W. Hollingsworth, M.D., Ch. Med. Serv.; Harold O. Conn, M.D., Clin. Invest.; West Haven, Conn. (8058)

2030. Antigenic Properties of the Anti-hemophilic Factor Obtained from Human Plasma.

J. N. Shanberge, M.D., Asst. Ch. Lab. Serv.; West Roxbury, Mass. (8159)

2031. Alterations in the Clotting Mechanism in Patients with Liver Disease and in Patients under Treatment with Prothrombinopenic Drugs.

J. N. Shanberge, M.D., Asst. Ch. Lab. Serv.; West Roxbury, Mass. (8166)

2032. The Effect of Prolonged Fasting upon Lipid and Liver Metabolism.

R. E. Clancy, M.D., Asst. Ch. Med. Serv.; S. Hashim, M.D., Cons.; West Roxbury, Mass. (8170)

2033. The Effect of Protamine on Thromboplastin Generation.

J. N. Shanberge, M.D., Asst. Ch. Lab. Serv.; A. Barlas, Tech. Research Lab.; E. Regan, Tech. Research Lab.; West Roxbury, Mass. (8174)

2034. The Effect of Serum Components on the Anticoagulant Action of Heparin *In Vitro* and *In Vivo*.

J. N. Shanberge, M.D., Asst. Ch. Lab. Serv.; J. S. Belko, Biochem. Research Lab.; R. G. Simpson, Super. Research Lab.; A. Barlas, Tech. Research Lab.; E. Regan, Tech. Research Lab.; West Roxbury, Mass. (8175)

2035. Correlations Between Peripheral Blood Platelet Levels and Serum Lipoprotein Electrophoretic Patterns.

J. S. Belko, M.S., Biochem. Research Lab.; B. J. Larkey, Phys. Science Aide, Research Lab.; West Roxbury, Mass. (8197)

2036. Peripheral Blood Flow as Measured by the Nitrous Oxide Equilibration Method of Kety and Schmidt.

R. Warren, Ch. Surg. Serv.; R. C. Shepherd, Research Fellow in Vasc. Surg.; West Roxbury, Mass. (8199)

2037. Coagulation Abnormalities in Individuals Who Bleed During Surgical Operations.

R. Warren, M.D., Ch. Surg. Serv.; J. S. Belko, Biochem. Research Lab.; West Roxbury, Mass. (8200)

2038. Reconstruction of Defects in Veins.

A. Scott Earle, M.D., Resident, Peter Bent Brigham Hosp.; J. S. Horsely, M.D., Resident, Peter Brent Brigham Hosp.; J. L. Villavicenzio, M.D., Research Fellow in Vascul. Surg., VAH; R. Warren, M.D., Ch. Surg. Serv.; West Roxbury, Mass. (8201)

2039. Evaluation of Surgical Versus Medical Treatment of Bleeding Esophageal Varices.

C. Crane, M.D., Cons. Surg.; T. A. Warthin, M.D., Ch. Med. Serv.; West Roxbury, Mass. (8202)

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2040. The Chemistry of Fibrinolysis.

S. I. Cohen, Ph. D., Research Lab.; West Roxbury, Mass. (8205)

2041. Studies of Coagulation Abnormalities in Dogs Receiving Homologous Liver Transplants.

J. S. Belko, Biochem. Research Lab., VAH; F. D. Moore, M.D., Moseley Prof., Harvard Med. Sch.; R. Warren, M.D., Ch. Surg. Serv., VAH; West Roxbury, Mass. (8206)

2042. The Efficacy of Human Fibrinolysin in the Solution of Clots *In Vivo*.

J. L. Villavicenzio, M.D., Research Fellow in Vasc. Surg.; R. Warren, M.D., Ch. Surg. Serv.; West Roxbury, Mass. (8207)

2043. The Effect of Heparin on Thromboplastin Generation.

J. N. Shanberge, M.D., Asst. Ch. Lab. Serv.; A. Barlas, Tech.; E. Regan, Tech.; West Roxbury, Mass. (8208)

2044. Appraisal of Methods for the Assay of Circulating Fibrinolysins.

J. L. Villavicenzio, M.D., Research Fellow in Vasc. Surg.; J. S. Belko, Biochem. Research Lab.; West Roxbury, Mass. (8209)

2045. Appraisal of Concentrated Intramuscular Heparin.

Richard Warren, M.D., Ch. Surg. Serv.; Jacob N. Shanberge, M.D., Asst. Ch. Clin. Lab.; West Roxbury, Mass. (11070)

2046. Effect of Anemia on Tissue Oxygen Tension.

Joseph L. Grant, M.D., Ch. Med. Serv.; White River Junction, Vt. (10681)

2047. Improvements in Blood Volume Determination and Studies of Evans Blue Dye Metabolism.

Lyle H. Hamilton, Ph. D., Ch. Phy. Sect., Research Serv.; Jerre L. Noland, Ph. D., Ch. Biochem. Lab., Research Serv.; Wood, Wis. (8275)

2048. A Spectrophotometric Method for the Determination of Evans Blue Dye in the Presence of Hemolysis and Lipemia.

Lyle H. Hamilton, Ph. D., Ch. Phy. Sect., Research Serv.; Wood, Wis. (8286)

2049. Direct Spectrophotometric Method for Determining Plasma or Serum Hemoglobin Concentration.

Lyle H. Hamilton, Ph. D., Ch. Phy. Sect., Research Serv.; Wood, Wis. (8287)

2050. Case Report—A Fatal Case of Agranulocytosis Due to Azulfidine Treatment of Ulcerative Colitis.

Donald A. Roth, M.D., Ph. D., Ch. Metab. and Endocr. Sect., VAC; M. C. F. Lindert, M.D., Cons. GI., VAC, Assoc. Clin. Prof. Med., Marquette; Wood, Wis. (9748)

5. Mental, Psychoneurotic, and Behavioral Disorders

2051. Comparison of Clinical Effectiveness of Chlorpromazine and Promazine.

Thomas H. Gilmore, M.D., Ch. Psychiat. Serv.; Leo Shatin, Ph. D., Ch. Psychol. Sec.; Albany, N.Y. (2027)

2052. Relationships Among Sex Knowledge, Intelligence, and Sexual Adjustment.

Leo Shatin, Ph. D., Ch. Psychol. Sec.; J. Alfred Southworth, Clin. Psychol.; Albany, N.Y. (2031)

2053. The Relationship Between Responses to the Spiral After Image Test and Typical Electroencephalograph Records of Chronic Brain Damaged Patients.

John E. Tucker, Ph. D., Ch. Clin. Psychol., Ment. Hygiene Clinic; Albany, N.Y. (2033)

2054. The Prediction of Introversive-Extroversive Occupational Preferences From Drawings of the Human Figure.

Alvin R. Talkoff, Ph. D., Clin. Psychol.; Norman Paris, Ph. D., Ch. Vocation. Counsel. Serv.; Albany, N.Y. (2034)

2055. The Relationship Between the Therapeutic Effect of Electro-Convulsive Therapy and the Disruption of Critical Flicker Frequency and Learning Ability.

Leon Lussier, Ph. D., Staff Psychol., Albany, N.Y. (2035)

2056. Methoxydone in the Treatment of Emotional (Non-Psychotic) Disorders.

Thomas H. Gilmore, M.D., Ch. Psychiat. Serv.; Leo Shatin, Ph. D., Ch. Psychol. Sect.; Albany, N.Y.

2057. Cooperative Aphasia Recovery Study.

Leo Shatin, Ph. D., Ch. Clin. Psychol.; Morton Weiser, Ph. D., Clin. Psychol.; Albany, N.Y. (2037)

2058. Psychological Re-Motivation of the Chronic Medical Patient: A Quantitative Study in Rehabilitation Methodology.

L. Shatin, Ph. D., Ch. Psychol. Sect.; P. Brown, Ph. D., Clin. Psychol.; Albany, N.Y. (8634)

2059. A Test for Anxiety and Hostility.

Morton Weiser, Ph. D., Clin. Psychol.; Albany, N.Y. (9026)

2060. Clinical Evaluation of Imipramine (Tofranil-Geigy) in the Treatment of Depression.

Thomas H. Gilmore, M.D., Ch. Psychiat. Serv.; Albany, N.Y. (9027)

2061. Evaluation of the Behavioral Effects of Chlorpromazine and/or Reserpine on Unselected Patients Admitted to a VA NP Hospital.

James W. Boudwin, M.D., Ward Psychiat.; Warren K. Garlington, Ph. D., Clin. Psychol.; American Lake, Wash. (2097)

2062. A Follow-up Investigation of Experimental Repression.

Willard A. Mainord, Ph. D., Clin. Psychol.; American Lake, Wash. (2099)

2063. The Prognostic Value of the Gordon Personality Profile in Aide Selection.

John B. Marks, Ph. D., Ch. Research Serv.; James C. Stauffacher, Ph. D., Dir. Psychol. Serv.; Florence Muehlhauser, B.S., Asst. Ch. Nursing Serv.; American Lake, Wash. (2100)

2064. Clinical *vs.* Actuarial Methods of Prediction.

John B. Marks, Ph. D., Ch. Research Serv.; John P. Hindley, Ph. D., Clin. Psychol.; American Lake, Wash. (2101)

2065. Prognostic Value of an Aide Attitude Check List.

John B. Marks, Ph. D., Ch. Research Serv.; James C. Stauffacher, Ph. D., Dir. Psychol. Serv.; Verna D. McDougall, R.N., Instr.; American Lake, Wash. (2102)

2066. Factors Related to Post-Hospital Adjustment.

John B. Marks, Ph. D., Ch. Research Serv.; James C. Stauffacher, Ph. D., Dir. Psychol. Serv.; Curtis M. Lyle, M.S.W., Psychiat. Soc. Worker; American Lake, Wash. (2104)

2067. The Expression of Negative Feelings and Reality Testing.

Bernard Meer, Ph. D., Clin. Psychol.; James C. Stauffacher, Ph. D., Ch. Clin. Psychol. Serv.; American Lake, Wash. (2110)

2068. The Prediction of Subsequent Activity of Student Nurses by the Personal Preference Schedule.

James C. Stauffacher, Ph. D., Dir. Psychol. Serv.; Leslie Navran, Ph. D., Clin. Psychol.; American Lake, Wash. (2111)

2069. An Analysis of the Temporal Stability of the Self Concept.

Thomas P. McGehee, Ph. D., Clin. Psychol.; American Lake, Wash. (2112)

2070. Physiological Reactions as Related to Internalization.

John B. Marks, Ph. D., Ch. Research Serv.; Adrienne J. Smith, Clin. Research Asst.; American Lake, Wash. (2117)

2070. Development of a Job Satisfaction Q-Sort for Personnel in an NP Hospital.

John B. Marks, Ph. D., Ch. Research Serv.; Warren K. Garlington, Ph. D., Clin. Psychol.; Curtis M. Lyle, M.S.W., Psychiat. Soc. Worker; American Lake, Wash. (2118)

2071. The Social Psychological Effects of Disturbed Behavior on a NP Ward.

John B. Marks, Ph. D., Ch. Research Serv.; Hayden L. Mees, M.S., Psychol. Tr.; American Lake, Wash. (2119)

2072. Responses to Human and to Animal Pictures of Institutionalized Mentally Retarded Children.

Rufus L. Butler, M.S., Clin. Psychol. Tr.; American Lake, Wash. (8806)

2073. MMPI Performance of Patients of High and Low "Treatability".

Warren K. Garlington, Ph. D., Clin. Psychol.; James C. Stauffacher, Ph. D., Dir. Psychol. Serv.; American Lake, Wash. (8807)

2074. Conditioning of Affect Responses in Schizophrenics in Interview.

James M. Hagen, M.S., Clin. Psychol. Tr.; American Lake, Wash. (8808)

2075. Personal Factors and Verbal Conditioning.

James M. Campbell, Clin. Psychol. Tr., VAH; Irwin Sarason, Ph. D., Cons., VAH, Asst. Prof., Univ. of Washington; American Lake, Wash. (8809)

2078. Internalization and Reaction to Stress.

John B. Marks, Ph. D., Ch. Psychiat. Research Unit; American Lake, Wash. (8810)

2079. Social Desirability Among Schizophrenics: Reaction to Ambiguity and to Different Sources of Conformity Pressure.

Vitali V. Rozynko, M.S., Clin. Psychol. Tr., VAH; Ezra Stotland, Ph. D., Asst. Prof. Psychol., Univ. of Washington; American Lake, Wash. (8811)

2080. 16 PF–MMPI Factor Study.

Edward F. Gocka, Ph. D., Post Doctoral Psychol. Tr.; John B. Marks, Ph. D., Ch. Research Unit; American Lake, Wash. (8971)

2081. Prediction of Response to Group Therapy Among Psychotics.

John B. Marks, Ph. D., Ch. Research Unit; James W. Boudwin, M.D., Staff Psychiat.; Rufus L. Butler, M.S., Clin. Psychol. Tr.; Mary Collins, R.N., Charge Nurse; Edward F. Gocka, M.S., Post Doctoral Tr.; James M. Hagen, M.S., Clin. Psychol. Tr.; Curtis M. Lyle, M.S.W., Asst. Ch. Soc. Worker, Research; American Lake, Wash. (8972)

2082. Internationalization and Perception of Movement.

Vitali V. Rozynko, M.S., Clin. Psychol. Tr.; John B. Marks, Ph. D., Ch. Research Serv.; American Lake, Wash. (9001)

2083. Needs in Learning and Internalization.

John B. Marks, Ph. D., Ch. Research Serv.; American Lake, Wash. (9014)

2083. The Effect of Using Privileges as "Pay" for Attending Detail Assignments.

Warren K. Garlington, Ph. D., Clin. Psychol.; American Lake, Wash. (9015)

2084. Discontinuance of Tranquilizers Among Chronic Schizophrenic Patients Receiving Maintenance Dosage.

Leon S. Diamond, M.D., Dir. Prof. Serv.; American Lake, Wash. (9016)

2085. Preliminary Steps in the Construction of Factorially Pure Scales for the MMPI.

Hayden L. Mees, M.S., Clin. Psychol. Tr., VAH; A. Paul Horst, Ph. D., Prof. Psychol., Univ. Washington; American Lake, Wash. (9290)

2086. The Effects of Dancing Instruction on Expressive Movement and Sociability in Neuropsychiatric Patients.

Mary Raines, Rec. Dir.; John B. Marks, Ph. D., Ch. Research Serv.; American Lake, Wash. (9291)

2087. Verbal Conditioning or Hostility as a Functioning of Personality Characteristics of Subject and Experimenter.

Willard A. Mainord, Ph. D., Clin. Psychol., VAH; Irwin G. Sarason, Ph. D., Assoc. Prof. Psychol., Univ. Washington; American Lake, Wash. (9292)

2088. Objective Evaluation of the Psychiatric Patient's Response to Intensive In-Patient Therapy.

David W. Bostian, M.D., Act. Ch. Neuropsychiat. Serv.; Gerald L. Hover, Ph. D., Asst. Ch. Clin. Psychol. Sect.; Julian J. Lasky, Ph. D., Ch. Clin. Psychol. Sect.; Millard O. Reese, M.S., Ch. SWS; Philip A. Smith, Ph. D., Research Psychol.; Dorothy P. Marquis, Ph. D., Asst. Ch. Psychol.; Melvin Manis, Ph. D., Research Psychol.; Lawrence J. Bookbinder, Ph. D., Research Psychol.; Ann Arbor, Mich. (2176)

2089. Development of Tests and Questionnaires for the Assessment of Neuropsychiatric Patients.

David W. Bostian, M.D., Act. Ch. Neuropsychiat. Serv.; Asst. Ch. Clin. Psychol.; Millard O. Reese, M.S., Ch. SWS; Philip A. Smith, Ph. D., Research Psychol.; Lawrence J. Bookbinder, Ph. D., Research Psychol.; Dorothy P. Marquis, Ph. D., Asst. Ch. Psychol.; Melvin Manis, Ph. D., Research Psychol.; Ann Arbor, Mich. (2177)

2090. Development of a Mental Status Rating Scale.

David W. Bostian, M.D., Act. Ch. Neuropsychiat. Serv.; Stanley Duffendack, Ph. D., Vocation. Couns.; Rosalie Ging, M.D., Staff Psychiat.; Gerald Hover, Ph. D., Asst. Ch. Clin. Psychol.; Julian J. Lasky, Ph. D., Ch. Clin. Psychol.; Elliot Luby, M.D., Staff Psychiat.; Millard O. Reese, M.S., Ch. SWS; Philip A. Smith, Ph. D., Research Psychol.; Melvin Manis, Ph. D., Research Psychol.; Ann Arbor, Mich. (2178)

2091. An Investigation of Empirical Relationships Among Measures of Authoritarianism, Dogmatism, Impulse Expression and MMPI Scales.

Gerald L. Hover, Ph. D., Asst. Ch. Clin. Psychol., VAH; Milton Rokeach, Ph. D., Cons., VAH, Assoc. Prof. Psychol., Univ. of Michigan; John Liebeskind, B.A., Psychol. Tr., VAH; Ann Arbor, Mich. (2180)

2092. The Creation of an Anger-Provoking, Work-Oriented Environmental Milieu as a Therapeutic Tool in Cases of Depression.

David W. Bostian, M.D., Act. Ch. Neuropsychiat. Serv.; Rosalie Ging, M.D., Staff Psychiat.; Gerald Hover, Ph. D., Asst. Ch. Clin. Psychol.; Julian J. Lasky, Ph. D., Ch. Clin. Psychol. Sec.; Elliot D. Luby, M.D., Staff Psychiat.; Philip A. Smith, Ph. D., Research Psychol.; Ann Arbor, Mich. (2181)

2093. Sociometric Study of Interpersonal Relationships Among Closed-Ward Psychiatric Patients.

Gerald L. Hover, Ph. D., Asst. Ch. Clin. Psychol.; Julian J. Lasky, Ph. D., Ch. Clin. Psychol.; Joanne Maryo, B.A., Psychol. Tr.; Ann Arbor, Mich. (2182)

2094. A Study of Psychiatric Disorders Associated With Abnormal EEG.

Rosalie J. Ging, M.D., Staff Psychiat.; Gerald L. Hover, Ph. D., Asst. Ch. Clin. Psychol.; Essene Joseph, M.A., Psychol. Tr., VAH; Ernst Rodin, M.D., Prof. Psychol., Univ. of Michigan; Ann Arbor, Mich. (2183)

2095. An Exploratory Study of Some Relationships Between Psychiatric Diagnosis, Length of Hospitalization and Nature of Post-Hospital Adjustment.

David W. Bostian, M.D., Act. Ch. Neuropsychiat. Serv.; Rosalie J. Ging, M.D., Staff Psychiat.; Gerald L. Hover, Ph. D., Asst. Ch. Clin. Psychol.; Julian J. Lasky, Ph. D., Ch. Clin. Psychol.; Elliot D. Luby, M.D., Staff Psychiat.; Philip A. Smith, Ph. D., Research Psychol.; Ann Arbor, Mich. (2184)

2096. Relationship Between Infantile Environmental and Adult Stress Responses in the Albino Rat.

Joseph Rubinstein, M.S., Clin. Psychol. Tr.; Ann Arbor, Mich. (2185)

2097. A Further Investigation of the Archimedes Spiral.

Allen Demorest, B.A., Psychol. Tr.; Ann Arbor, Mich. (2187)

2098. Prediction of Performance in Clinical Psychology—A Ten Year Follow-Up of the Kelly-Fiske Findings.

Lewis R. Goldberg, M.A., Clin. Psychol. Tr.; Ann Arbor, Mich. (2189)

2099. An Investigation of the Archimedes Spiral After-Effect in Organic Post-Shock and Psychiatric Patients.

Lewis Goldberg, M.A., Clin. Psychol. Tr.; Ann Arbor, Mich. (2190)

2100. Factor Analytic Studies of the WAIS.

Gerald Hover, Ph. D., Asst. Ch. Clin. Psychol.; Ann Arbor, Mich. (9002)

2101. Mediated Generalization and Discrimination Learning.

Melvin Manis, Ph. D., Research Psychol.; K. Butz, MA, Psychol. Tr.; Ann Arbor, Mich. (9003)

2102. Individual Differences in Interpersonal Perception.

Melvin Manis, Ph. D., Research Psychol.; Ann Arbor, Mich. (9004)

2103. The Effect of Anxiety on the Communication Process.

Melvin Manis, Ph. D., Research Psychol.; Edward Barnes, M.A., Psychol. Tr.; Ann Arbor, Mich. (9005)

2104. The Effect of Anxiety Level (as Controlled by Sparine) on Perceptual Accuracy in Stressful and Non-Stressful Situations.

Melvin Manis, Ph. D., Research Psychol; Robyn Dawes, B.A., Psychol. Tr.; Lawrence Kipperman, M.A., Psychol. Tr.; Ann Arbor, Mich. (9006)

2105. The Effect of Anxiety Level (as Controlled by Sparine) on Competitional Learning.

Melvil Manis, Ph. D., Research Psychol.; Robyn Dawes, B.A., Psychol. Tr.; Ann Arbor, Mich. (9007)

2106. Psychometric Determination of Prognostic Indices in Patients with Duodenal Ulcers.

J. C. Thoroughman, M.D., Ch. Surg. Serv; J. C. Crutcher, M.D., Ch. Med. Serv., VAH; G. R. Pascal, Area Cons. Psychol., Univ. of Tennessee; W. O. Jenkins, Area Cons. Psychol., Univ. of Tennessee; Atlanta, Ga. (2256)

2107. The Accuracy of the Assessment of Intellectual Functioning in Psychological Screening.

N. Reichenberg, Ph. D., Clin. Psychol.; M. J. Brennan, Ph. D., Ch. Clin. Psychol.; Augusta, Ga. (2317)

2108. To Determine the Relation of the Archimedes Spiral Negative Aftereffect and Organic Brain Damage.

Martin J. Brennan, Ph. D., Ch. Psychol.; Norman Reichenberg, Staff Psychol.; Augusta, Ga. (2318)

2109. The Role of the Social Worker as a Participating Member of the Clinical Team in the Treatment and Rehabilitation of Psychiatric Patients on an Open Ward in the General Medical & Surgical Division of the Hospital.

Miss Mildred L. Jennings, Ch. SWS; Kenneth Lee, Tr. Soc. Serv.; Frank Bethany, Tr. Soc. Serv.; Augusta, Ga. (2320)

2110. Study of Psychophysiological Correlates of Psychosomatic Patients in General Medical and Surgical Setting.

M. J. Brennan, Ph. D., Ch. Clin. Psychol.; Augusta, Ga. (8525)

2111. Study of Psychophysiological Correlates of Psychiatric Clinical Syndromes and the Use of Polygraph in Conjunction With Other Diagnostic Instruments in a Psychiatric Setting—Phase I.

Richard B. Heintz, M.D., Psychiat. Serv.; M. J. Brennan, Ph. D., Ch. Clin. Psychol.; Augusta, Ga. (8528)

2112. Study of Psychophysiological Correlates of Psychiatric Clinical Syndromes as They Are Effected by Tranquilizing Drugs.

Richard B. Heintz, M.D., Psychiat. Serv.; M. J. Brennan, Ph. D., Ch. Clin. Psychol.; Augusta, Ga. (8529)

2113. Study of a New Diuretic Drug—Hydrodiuril (Hydrochlorothiazide).

J. Lozner, M.D., Asst. Ch. Med. Serv.; V. P. Sydenstricker, M.D., Asst. Ch. Med. Serv.; Augusta, Ga. (8530)

2114. Clinical Trial of Stelazine (Trifluoperazine) on Refractory Mental Patients.

J. L. Sawyer, M.D., Phys. Psychiat. Serv.; Augusta, Ga. (8532)

2115. Study of New Drug Niamid (Nialamide).

Elna A. Lombard, M.D., Career Resident, Psychiat. Serv.; Augusta, Ga. (8885)

2116. Patient Care Research Project.

M. Dunn, M.D., Dir. Prof. Serv.; Augusta, Ga. (8886)

2117. Cross Validation of a Test for Organicity.

Stewart G. Armitage, Ph. D., Ch. Psychol. Serv.; Battle Creek, Mich. (2423)

2118. Behavioral Correlates of Psychological Test Data.

Stewart G. Armitage, Ph. D., Ch. Psychol. Serv.; Battle Creek, Mich. (2424)

2119. Sociometric Structure of a Privilege NP Ward and Relationships to Personality.

David Pearl, Ph. D., Asst. Ch. and Dir. of Research, Psychol. Serv.; Battle Creek, Mich. (2427)

2120. Rorschach Test Coding.

Stewart G. Armitage, Ph. D., Ch. Psychol. Serv.; Battle Creek, Mich. (2428)

2121. Test-retest Changes in the Rorschach Test.

Stewart G. Armitage, Ph. D., Ch. Psychol. Serv.; Battle Creek, Mich. (2429)

2122. Symptom Changes in Relation to Rorschach Test Changes.

Stewart G. Armitage, Ph. D., Ch. Psychol. Serv.; Battle Creek, Mich. (2430)

2123. The Use of the Rorschach as a Predictor of Hospital Stay.

Stewart G. Armitage, Ph. D., Ch. Psychol. Serv., VAH; Robert Rosenthal, M.A., Graduate Student, Univ. of Michigan; Richard Metz, B.A., Graduate Student, Univ. of Michigan; Battle Creek, Mich. (2435)

2124. Conceptual Behavior in the Learning of Schizophrenics.

Stewart G. Armitage, Ph. D., Ch. Psychol. Serv., VAH; Maurice R. Denny, Ph. D., Cons., VAH, Prof. Psychol., Michigan State Univ.; Carl Brown, Ph. D., Cons. VAH, Assoc. Prof. Psychol., Univ. of Michigan; Battle Creek, Mich. (2438)

2125. Problem Solving Behavior in Schizophrenia.

Stewart G. Armitage, Ph. D., Ch. Psychol. Serv., VAH; M. Ray Denny, Ph. D., Prof. Psychol., Michigan State Univ.; Carl Brown, Ph. D., Assoc. Prof. Psychol., Univ. of Michigan; Battle Creek, Mich. (2439)

2126. Reaction of Normal and Schizophrenic Subjects in an Attempt to Solve an Insolvable Problem.

Stewart G. Armitage, Ph. D., Ch. Psychol. Serv., VAH; Maurice R. Denny, Ph. D., Cons. VAH, Prof. Psychol., Michigan State Univ.; Carl Brown, Ph. D., Cons. VAH, Assoc. Prof. Psychol., Univ. of Michigan; Battle Creek, Mich. (2440)

2127. A Study of Response Stereotypy.

Stewart G. Armitage, Ph. D., Ch. Psychol. Serv., VAH; Carl Brown, Ph. D., Assoc. Prof. Psychol., Univ. of Michigan; M. Ray Denny, Ph. D., Prof. Psychol., Michigan State Univ.; Battle Creek, Mich. (2441)

2128. A Study of Perceptual Distortion.

Stewart G. Armitage, Ph. D., Ch. Psychol. Serv., VAH; Carl Brown, Ph. D., Assoc. Prof. Psychol., Univ. of Michigan; Battle Creek, Mich. (2442)

2129. Flicker Fusion Phenomena in Schizophrenia.

Stewart G. Armitage, Ph. D., Ch. Psychol. Serv., VAH; Carl Brown, Ph. D., Cons. VAH, Assoc. Prof. Psychol., Univ. of Michigan; Battle Creek, Mich. (2444)

2130. A Study of Spiral After-effect.

Stewart G. Armitage, Ph. D., Ch. Psychol. Serv., VAH; Carl Brown, Ph. D., Cons. VAH, Assoc. Prof. Psychol., Univ. of Michigan; Battle Creek, Mich. (2445)

2131. Effects of Chloropromazine on Behavioral, Cognitive, Psychophysiological and Physiological Variables.

David Pearl, Ph. D., Dir. Research; Harry Vander Kamp, M.D., Asst. Ch. Surg. and Med. Serv.; Battle Creek, Mich. (2446)

2132. Effects of Promazine on Behavioral, Cognitive, Psychophysiological and Physiological Variables.

David Pearl, Ph. D., Dir. Research; Harry Vander Kamp, M.D., Asst. Surg. and Med. Serv.; Battle Creek, Mich. (2447)

2133. A Study of Schizophrenic Time and Motion Distortion.

Stewart G. Armitage, Ph. D., Ch. Psychol. Serv., VAH; Carl Brown, Ph. D., Cons. VAH, Assoc. Prof. Psychol., Univ. of Michigan, Battle Creek, Mich. (2448).

2134. Aspects of the Psychiatric Aide Job.

Murray Malbin, Ph. D., Soc. Psychol. Tr., Univ. of Michigan; Battle Creek, Mich. (2454)

2135. Construction of a Sentence Completion Test to Measure Needs for Affiliation and Achievement.

Paul Berg, BA, Clin. Psychol. Tr.; Battle Creek, Mich. (2455)

2136. Cognitive, Psychomotor and Perceptual Changes in Chemotherapy Project No. 3 Patients.

David Pearl, Ph. D., Dir. Research and Asst. Ch. Psychol. Ser.; Battle Creek, Mich. (2457)

2137. Time Perception of Schizophrenic Subjects under Varying Conditions.

David Pearl, Ph. D., Dir. Research Psychol. Serv.; Battle Creek, Mich. (2458)

2138. Effects of Drug Therapy on Time Perception of Schizophrenic Subjects.

David Pearl, Ph. D., Dir. Research Psychol. Serv.; Battle Creek, Mich. (2459)

2139. Mental Illness Ideology of Family Care Sponsors.

Norman Graff, Ph. D., Ch. Training Sect. Psychol. Serv.; Battle Creek, Mich. (2460)

2140. Relationship of White Blood Counts and Chronic Schizophrenia.

Eli Orr, M.D., Ch. Acute Intensive Serv.; Battle Creek, Mich. (8594)

2141. Autonomic Reactivity to Metacholine as a Prognostic Index to Patient Clinical Improvement.

Harry Vander Kamp, M.D., Asst. Ch. Surg. and Med. Serv.; David Pearl, Ph. D., Asst. Ch. and Dir. Research, Psychol Serv.; Battle Creek, Mich. (9030)

2142. The Metacholine Test as a Long Range Predictor of Clinical Improvement.

David Pearl, Ph. D., Asst. Ch. and Dir. Research, Psychol Serv.; Harry Vander Kamp, M.D., Asst. Ch. Surg. and Med. Serv.; Battle Creek, Mich. (9031)

2143. Autonomic Reactivity and Perceptual Performance.

David Pearl, Ph. D., Asst. Ch. and Dir. Research, Psychol. Serv.; Battle Creek, Mich. (9032)

2144. A Therapeutic Approach to Chronic Withdrawn Schizophrenics: An Operant Conditioning Method.

Gerald King, Ph. D., Asst. Prof. Psychol., Michigan State Univ.; Stewart G. Armitage, Ph. D., Ch., Psychol. Serv., VAH; Battle Creek, Mich. (9315)

2145. Differential Effects of Chlorpromazine and Reserpine.

David Pearl, Ph. D., Dir. Research and Asst. Ch., Psychol. Serv.; Louis Herman, M.D., Asst. Dir. Prof. Serv. Research and Education; Harry Vander Kamp, M.D., Asst. Ch. Surg. and Med. Serv.; Albert L. Olsen, M.D., Manager, VAH, Knoxville, Iowa; Stewart G. Armitage, Ph. D., Ch. Psychol. Serv.; Battle Creek, Mich. (9316)

2146. Longitudinal Sociopsychologic Study of a Randomly Selected Group of Institutionalized Veterans.

Marvin W. Webb, A.M., Ed. D., Ch. Clin. Psychol. Sec.; Bay Pines, Fla. (2473)

2147. The Personality Characteristics of Emphysema Patients.

Marvin W. Webb, A.M., Ed. D., Ch. Clin. Psych. Sect.; Bay Pines, Fla. (2474)

2148. The Effect of Verbal Cues on the Frequency and Rate of Sentences Containing Responses of a Designated Class in a Situation Resembling an Interview.

Charles Gersten, B.B.A., Psychol. Tr.; Bay Pines, Fla. (2475)

2149. The Effect of Verbal Cues in a Testing Situation.

Charles Gersten, B.B.A., Psychol. Tr.; Jack Sandler, M.S., Psychol. Tr.; Bay Pines, Fla. (2476)

2150. Personality Traits of Multiple Sclerotics.

Marvin W. Webb, A.M., Ed. D., Ch. Clin. Psychol. Sec.; Bay Pines, Fla. (9318)

2151. Does Reserpine Produce Peptic Ulcer?

W. E. Marchand, M.D., Ch. Med.-Surg. Serv.; L. P. Fincle, M.D., Phys. Psychiat. Serv.; Bedford, Mass. (2481)

2152. A Study of Social Effectiveness in Psychiatric Patients.

P.S. Kraus, M.D., Act. Ch. Acute-Intensive Treatment Serv.; P. Nogee, Ph. D., Research Cons., Psychol.; L. J. Reyna, Ph. D., Research Cons., Psychol.; Bedford, Mass. (2482)

2153. Study of Metabolism in Patients with Schizophrenia.

C. G. Colburn, M.D., Asst. Dir. Prof. Serv. for Research; A. S. Zygmuntowicz, Super. Biochem.; C. A. Pinderhughes, M.D., Psychiat.; E. T. Davis, Ph. D., Asst. Ch. Psychol. Serv.; E. J. Fredenburgh, Phys. Science Aide; Bedford, Mass. (2483)

2154. Study of Quantitative & Qualitative Adrenal Steroids in Patients with Schizophrenia

A. S. Zygmuntowicz, Super. Biochem.; C. G. Colburn, M.D., Asst. Dir., Prof. Serv. Research; C. A. Pinderhughes, M.D., Psychiat.; E. T. Davis, Ph. D., Asst. Ch., Psychol. Serv.; E. J. Fredenburgh, Phys. Scien. Aide; Bedford, Mass. (2484)

2155. Theoretical and Empirical Relationships of Critical Flicker Fusion Frequency (CFFF) to Auditory Stimulation with Special Reference to Schizophrenia.

E. T. Davis, Ph. D., Asst. Ch. Psychol. Serv.; A. Berkeley, Ph. D., Research Cons. Psychol.; M. L. Cohen, Ph. D., Cons. Psychol.; Bedford, Mass. (2488)

2156. Study of Perceptual Regression.

T. B. Mulholland, Ph. D., Research Psychol.; Bedford, Mass. (2490)

2157. Physical Fitness Indices of Selected Neuropsychiatric Patients.

Robert E. Hodgdon, Super. Correct. Therapy; Delilah Riemer, M.D. Ch. PM&R Serv.; Bedford, Mass. (2491)

2158. Effect of "L-Glutavite" on Chronic Geriatric Schizophrenic Patients.

L. Fincle, M.D., Phys., Psychiat. Serv.; L. J. Reyna, Ph. D., Research Cons., Psychol.; Bedford, Mass. (2492)

2159. An Experimental Study of Perceptual Structure in Normals & Psychotics—EEG Alpha & Volitional Control of Motion.

T. B. Mulholland, Ph. D., Research Psychol.; S. Runnals, EEG Tech.; Bedford, Mass. (2495)

2160. Medical and Surgical Problems in Psychotic Patients.

W. E. Marchand, M.D., Ch. Med. Surg. Serv.; O. F. Ehrentheil, M.D., Phys. Med-Surg. Serv.; Bedford, Mass. (2496)

2161. The Use of Glutamic Acid for Psychiatric Patients.

L. Fincle, M.D., Phys. Psychiat. Serv.; L. J. Reyna, Ph. D, Research Cons. Psychol.; Bedford, Mass. (9320)

2162. Attitudes of Relatives of Mental Patients.

C. L. Rose, Super. SWS; L. J. Reyna, Ph. D, Research Cons. Psychol.; P. Nogee, Ph. D, Research Cons. Psychol.; Bedford, Mass. (9321)

2163. The Analysis of Occupational Therapy Tasks and Their Relationship to the Needs and Capabilities of the Patient.

D. Riemer, M.D., Ch. PM&R Serv.; M. E. Poli, Super., Occup. Therapy Serv.; L. J. Reyna, Ph. D, Research Cons., Psychol.; P. Nogee, Ph. D, Research Cons., Psychol.; E. T. Davis, Ph. D, Asst. Ch., Psychol. Serv.; Bedford, Mass. (9322)

2164. Effects of Stress on Personality Structure.

A. Cooper Price, Ph. D., Ch. Psych. Serv.; Biloxi (Biloxi Div.), Miss. (2501)

2165. Relationship of "Psychopathy" to Chronic Undifferentiated Schizophrenia.

A. Cooper Price, Ph. D., Ch. Psych. Serv.; Biloxi (Biloxi Div.), Miss. (2503)

2166. Personality Structure in Hyperthyroids Before and After Treatment.

A. Cooper Price, Ph. D., Ch. Psych. Serv.; S. Chavez, M.D., Inter. Med. Serv.; Biloxi (Biloxi Div.), Miss. (2509)

2167. Muscle Degeneration in Conversion Reaction.

William A. Dodson, M.D., Ch. PMR Serv.; Biloxi (Biloxi Div.), Miss. (2510)

2168. The Condition of Correct Responses on the Wechsler-Bellevue Intelligence Test Through Verbal Reinforcement.

Carl S. Hoffman, Experiment. Psychol. Tr., Florida State Univ.; A. Cooper Price, Ph. D., Ch. Psychol. Serv., VAC; Biloxi (Biloxi Div.), Miss. (8608)

2169. Differences in the Performance of Well Adjusted and Poorly Adjusted Domiciliary Residents on the Multiple Choice Rorschach Test.

Carl S. Hoffman, Experiment. Psychol. Tr., Florida State Univ.; A. Cooper Price, Ph. D., Ch. Psychol. Serv., VAC; Biloxi, (Biloxi Div.), Miss. (8609)

2170. The Effect of Reinforcement on the Generalization of a Verbal Response Into a Written Response.

Carl S. Hoffman, Experiment. Psychol. Tr., Florida State Univ.; A. Cooper Price, Ph. D., Ch. Psychol. Serv.; Biloxi (Biloxi Div.), Miss. (8610)

2171. Validation of a Sentence Completion Test.

David C. Murray, Ph. D., Asst. Ch. Psychol. Serv.; Biloxi (Gulfport Div.), Miss. (4124)

2172. Colored Prints (8″ x 10″) of Various Neuropathological Tissue Slides Enlarged from Kodachrome.

Charles R. Lafferty, M.D., Ch. Lab. Serv.; Lester M. Robertson, Histopath. Tech.; Biloxi (Gulfport Div.), Miss. (4128)

2173. Evaluation of Frenquel in the Treatment of Psychotic Patients.

Roy M. Barber, M.D., Resident Psychiat.; Biloxi (Gulfport Div.), Miss. (4129)

2174. The Interaction of Patient's Intelligence and Other Factors With Clinicians' Skill in the Diagnostic Use of Human Figure Drawings.

Miles W. Hardy, M.A., Psychol. Tr.; Biloxi (Gulfport Div.), Miss. (4130)

2175. A Comparison of Bacterial Growth in Serum from Schizophrenics and Non-Schizophrenics.

Charles R. Lafferty, M.D., Ch. Lab. Serv.; Charles Angel, Ph. D., Ch. Research Lab.; Mona C. Malone, B.S., Research Lab. Tech.; Biloxi (Gulfport Div.), Miss. (4133)

2176. Perception of Apparent Motion in Simple Figures by Varying Types of Psychiatric Patients.

E. Porter Horne, Ph. D., Cons. Clin. Psychol., VAC, Assoc. Prof. Psychol., Univ. of Florida; Herdis L. Deabler, Ph. D., Ch. Psychol. Serv., VAC; Biloxi (Gulfport Div.), Miss. (4134)

2177. Histological Study of the Endocrine Glands of Rabbits After Injection of Serum From Schizophrenics, Arteriosclerotics, and Normals.

Charles R. Lafferty, M.D., Ch. Lab. Serv.; Mona C. Malone, B.S., Research Lab. Tech.; Biloxi (Gulfport Div.), Miss. (4135)

2178. Figure Drawings and Diagnosis.

David C. Murray, Ph. D., Asst. Ch. Psychol. Serv.; Herdis L. Deabler, Ph. D., Ch. Psychol. Serv.; Biloxi (Gulfport Div.), Miss. (4136)

2179. The Spiral Aftereffect and Insulin and Electro-Convulsive Treatment.

Herdis L. Deabler, Ph. D., Ch. Psychol. Serv.; A. Cooper Price, Ph. D., Ch. Clin. Psychol.; Biloxi (Gulfport Div.), Miss. (4137)

2180. To Analyze Sociological Factors that May Have Precipitated Patient's Return to The Hospital.

Jean F. Matthews, M.S.W., Case Super.; Hilliard E. Chesteen, Jr., M.S.W., Clin. Soc. Worker; Biloxi (Gulfport Div.), Miss. (4142)

2181. Studies on Ceruloplasmin.

Charles Angel, Ph. D., Ch. Research Lab.; Biloxi (Gulfport Div.), Miss. (4144)

2182. Studies on Taraxein.

Charles Angel, Ph. D., Ch. Research Lab.; Biloxi (Gulfport Div.), Miss. (4145)

2183. Serum Protein and Serum Copper Studies on Schizophrenic Patients Before and After Therapy.

Charles Angel, Ph. D., Ch. Research Lab.; Roy M. Barber, M.D., Resident Psychiat.; J. Jerome Rinaldi, M.D., Act. Ch. Med. and Surg. Serv.; Biloxi (Gulfport Div.), Miss. (4146)

2184. To Prepare a Serum as a Test for Schizophrenia.

Charles R. Lafferty, M.D., Ch. Lab. Serv.; Biloxi (Gulfport Div.), Miss. (4147)

2185. Transaminase Reaction of the Spinal Fluid.

J. Jerome Rinaldi, M.D., Act. Ch. Med. and Surg. Serv.; Lastie M. Villien, M.D., Ch. Med. Serv.; Charles Angel, Ph. D., Ch. Research Lab.; Biloxi (Gulfport Div.), Miss. (4148)

2186. Polygraph Patterns of Varying Psychiatric Groups.

Hudson Jost, Ph. D., Clin. Psychol. (Adult) and Chm. Dept. Psychol., Univ. of Florida, Cons. Psychol., VAC; Herdis L. Deabler, Ph. D., Ch. Psychol. Serv., VAC; M. Richard Kilpatrick, Electroencephalographer; Biloxi (Gulfport Div.), Miss. (4149)

2187. Prognosis for Insulin Treatment on the Basis of Polygraph Findings.

Hudson Jost, Ph. D., Cons. Psychol., VAC, Clin. Psychol. (Adult) and Chm. Dept. Psychol., Univ. of Florida; Herdis L. Deabler, Ph. D., Ch. Psychol. Serv., VAC; James A. Hughes, M.D., Ch. Spec. Therapies; M. Richard Kilpatrick, Electroencephalographer; Biloxi (Gulfport Div.), Miss. (4150)

2188. The Relative Effects of Psychological Stress and of Diet on Blood Cholesterol Level and on Deposit of Fatty Cholesterol in Arterial Intima.

Bruce Carpenter, M.A., Psychol. Tr.; Janeth T. Carpenter, Ph. D., Research Psychol.; Charles R. Lafferty, M.D., Ch. Lab. Serv.; Herdis L. Deabler, Ph. D., Ch. Psychol. Serv.; Charles Angel, Ph. D., Ch. Research Lab.; Biloxi (Gulfport Div.), Miss. (4151)

2189. Conformity Behavior in Hospitalized Neuropsychiatric Patients.

Bruce Carpenter, M.A., Psychol. Tr.; Biloxi (Gulfport Div.), Miss. (4152)

2190. Intensive Short-Term Individual Psychotherapy With Regressed Psychotics.

David C. Murray, Ph. D., Asst. Ch. Psychol. Serv.; Wilma J. Knox, Ph. D., Clin. Psychol.; James A. Sproles, M.D., Ch. Cont. Treatment Serv.; Herman I. Levin, Psychol. Tr.; Jack Sandler, Psychol. Tr.; Helen S. Wambach, Psychol. Tr.; Biloxi (Gulfport Div.), Miss. (4153)

2191. The Record of Use of Psychotherapeutic Drugs.

J. Jerome Rinaldi, M.D., Act. Ch. Med. and Surg. Serv.; Biloxi (Gulfport Div.), Miss. (4154)

2192. The Effects of Stimulus Deprivation on Previously Learned Behavior in the White Rat.

Bruce Carpenter, M.A., Psychol. Tr.; Biloxi (Gulfport Div.), Miss. (4155)

2193. Effects of Taraxein on Conditioned Responses in Rats.

Charles Angel, Ph. D., Ch. Research Lab.; Bruce Carpenter, M.A., Psychol. Tr.; Janeth T. Carpenter, Ph. D., Research Psychol.; Biloxi (Gulfport Div.), Miss. (4156)

2194. Generalization Gradients in Verbal Conditioning.

Janeth T. Carpenter, Ph. D., Research Psychol.; Biloxi (Gulfport Div.), Miss. (4157)

2195. The Effect of Negative Reinforcement in Verbal Learning.

Jack Sandler, Psychol. Tr.; Biloxi (Gulfport Div.), Miss. (4158)

2196. The Determinants of Color Selection in Figure Drawings.

Alan R. Phillips, Psychol. Tr.; Biloxi (Gulfport Div.), Miss. (4159)

2197. Studies on Urinary Constituents of Schizophrenics.

Charles Angel, Ph. D., Ch. Research Lab.; Arthur J. Roberts, M.D., Ch. Acute Intensive Treatment Serv.; Mary L. Burkett, B.S., Med. Tech. (Chem.); Biloxi (Gulfport Div.), Miss. (8613)

2198. Studies on Adrenalin Oxidation Products.

Charles Angel, Ph. D., Ch. Research Lab.; Bruce Carpenter, M.A., Clin. Psychol. Tr.; Janeth T. Carpenter, M. Ed., Clin. Psychol. Tr.; Biloxi (Gulfport Div.), Miss. (8614)

2199. An Exploration and Evaluation of the Factors Preventing Neuropsychiatric Patients Who No Longer Require Psychiatric Treatment From Leaving the Hospital and Returning to Their Families.

Lorene M. Boles, B.S., SWS Tr.; Biloxi (Gulfport Div.), Miss. (8615)

2200. The Effects of Early Food Deprivation on Survival and Organic Site of Malfunction in the White Rat.

Bruce Carpenter, M. A., Clin. Psychol. Tr.; Janeth T. Carpenter, M. Ed., Clin. Psychol. Tr.; Biloxi (Gulfport Div.), Miss. (8616)

2201. A Study of Outpatient Treatment Services Provided Veterans While on Trial Visit.

Hilliard E. Chesteen, Jr., M.S.W., Clin. SW; Nirna E. Mead, M.A., Ch. SW; Jean F. Matthews, M.S.W., Super. Clin. SW; Joe M. Long, M.S.W., Clin. SW; Frances K. Dyer, M.S.W., Clin. SW; George H. Clough, B.S., Clin. SW; Calvin W. Yokum, M.S.W., Clin. SW; Biloxi (Gulfport Div.), Miss. (8617)

2202. The Detection of A, B, and O Substances in the Saliva of Schizophrenic Patients and Non-Hospitalized Controls.

Charles R. Lafferty, M.D., Ch. Lab. Serv.; Mary L. Burkett, B.S., Med. Tech. (Chem.); Biloxi (Gulfport Div.), Miss. (8618)

2203. A Study of Voluntary Returnees: Factors Which Contribute to the Unsatisfactory Adjustment of Patients Released from the Hospital for 90-Day Trial Visits.

Julie Sutton, B.S., SWS Tr.; Biloxi (Gulfport Div.), Miss. (8619)

2204. Performance in a Complex Serial Learning Task as a Function of Localized Brain Damage in a Psychiatric Population.

Arthur Newton, M.A., Clin. Psychol. Tr.; Biloxi (Gulfport Div.), Miss. (9009)

2205. The Effectiveness of Firm or Friendly Approaches by a Corrective Therapist in Dealing with Geriatric Neuropsychiatric Patients.

LeeRoy C. Schapansky, PMR Tr.; Biloxi (Gulfport Div.), Miss. (9039)

2206. A Clinical Study on Mellaril.

James A. Sproles, M.D., Ch. Cont. Treatment Serv.; Biloxi (Gulfport Div.), Miss. (9041)

2207. A Study to Evaluate the Effectiveness of Group Therapy as a Method of Treatment by Measured Changes in Interpersonal Relationships.

Hilliard E. Chesteen, Jr., M.S.W., Clin. SW; Courtenay W. Wetherbee, B.A., SWS Tr.; Biloxi (Gulfport Div.), Miss. (9043)

2208. Tryptophane Load Tests in Schizophrenic and Normal Subjects.

Charles Angel, Ph. D., Ch. Research Lab.; Arthur J. Roberts, M.D., Ch. Acute Intensive Treatment Serv.; Mary L. Burkett, B.S., Med. Tech.; Biloxi (Gulfport Div.), Miss. (9323)

2209. Spectrophotometric Studies on Urinary Constituents of Mental Patients.

Arthur J. Roberts, M.D., Ch. Acute Intensive Treatment Serv.; Charles Angel, Ph. D., Ch. Research Lab.; Mary L. Burkett, B.S., Med. Tech.; Biloxi (Gulfport Div.), Miss. (9324)

2210. Flicker-Fusion Thresholds for Varying Groups of Psychiatric Patients.

E. Porter Horne, Ph. D., Cons. Clin. Psychol., VAC, Assoc. Prof. Psychol., Univ. Florida; Herdis L. Deabler, Ph. D., Ch. Psychol. Serv., VAC; Biloxi (Gulfport Div.), Miss. (9325)

2211. Changes in Closed Ward Population 1947–1956.

H. Goodglass, Ph. D., Asst. Ch. Clin. Psychol.; C. A. Pinderhughes, M.D., Ch. Closed Ward Sec.; D. M. Weiss, M.D., Asst. Ch. Closed Ward Sec.; S. Andrews, M.S.S., Asst. Ch. SWS; E. L. Rogers, Ch. Med. Record Librarian; Boston, Mass. (2689)

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2212. Factors Determining Good and Poor Adjustment to Epilepsy.

A. Folsom, Ph. D., Clin. Psychol.; M. Morgan, M.S.S., Research SW; S. Andrews, M.S.S., Asst. Ch. SWS; H. Goodglass, Ph. D., Asst. Ch. Clin. Psychol.; F. A. Quadfasel, M.D., Ch. Neur. Sect.; Boston, Mass. (2713)

2213. Psychiatric Diagnosis From a Psychological Test Battery.

Robert L. Geiser, M.A., Clin. Psychol. Tr.; Boston, Mass. (10258)

2214. Correlates of the Fisher-Cleveland "Barrier Score".

Herbert E. Harrington, Jr., M.A., Psychol. Tr.; Harold Goodglass, Ph. D., Asst. Ch. Clin. Psychol.; Boston, Mass. (10259)

2215. The Effect of Delay and Interference on Digit Span.

H. Goodglass, Ph. D., Asst. Ch. Clin. Psychol.; L. Nidorf, M.A., Exper. Psychol. Tr.; J. Walsh, M.A., Exper. Psychol. Tr.; Boston, Mass. (10260)

2216. Development of an Epilepsy Job Suitability Scale.

H. Goodglass, Ph. D., Asst. Ch. Clin. Psychol.; W. Clark, M.A., Couns. Psychol. Tr.; A. T. Folsom, Ph. D., Clin. Psychol.; Boston, Mass. (10261)

2217. Study of Learning and Communication in a Case of Akinetic Mutism.

Estelle Singer, M.S., Psychol. Tr.; Angela T. Folsom, Ph. D., Clin. Psychol.; Boston, Mass. (10262)

2218. The Effect of Aphasia on English Inflectional Morphology.

H. Goodglass, Ph. D., Asst. Ch. Clin. Psychol. Sect.; J. Berko, Ph. D., Research Asst. Aphasia Unit; Boston, Mass. (10263)

2219. Informational Content of Psychological Reports.

H. Goodglass, Ph. D., Asst. Ch. Clin. Psychol.; J. Kirman, M.A., Psychol. Tr.; R. C. Misch, Ph. D., Clin. Psychol.; Boston, Mass. (10264)

2220. Freud and the Problems of Today.

W. F. Murphy, M.D., Psychiat. & Neur. Serv.; Boston, Mass. (10265)

2221. The Tactics of Psychotherapy.

W. F. Murphy, M.D., Psychiat. & Neur. Serv.; Boston, Mass. (10266)

2222. The Disturbance of Gesture and Pantomime in Aphasia.

Harold Goodglass, Ph. D., Asst. Ch. Clin. Psychol.; Edith Kaplan, MA, Research Psychol.; Boston, Mass. (10287)

2223. Ego Integration, Trauma and Insight. (Reported Under Title "Clinical Variations in the Defense Against Psychic Trauma," 1958.)

W. F. Murphy, M.D., Psychiat. & Neur. Serv.; Boston, Mass. (10288)

2224. Color Form Sorting in Brain-Damaged Patients.

Angela T. Folsom, Ph. D., Clin. Psychol.; Francis W. King, Ph. D., Clin. Psychol. Tr.; Boston, Mass. (10289)

2225. Stereotypes of Patients With Different Diseases.

B. Lieberman, Ph. D., Psychol. Tr.; H. Goodglass, Ph. D., Asst. Ch. Clin. Psychol.; Boston, Mass. (10290)

2226. Emotional Problems of Fatherhood: A Study of Veteran-Patients at a Mental Hygiene Clinic.

Morris H. Adler, M.D., Cons., VAOC, Asst. Clin. Prof. Psychiat., Tufts Univ. Sch. of Med.; Charles V. Lovell, M.D., Psychiat., VAOC; Stanley P. Rosenzweig, Ph. D., Clin. Psychol.; J. Warren Thiesen, Ph. D., Ch. Clin. Psychol.; Boston, Mass. (3064)

2227. Correlation of Nonverbal Communication With Verbal Communication in Clinical Interviews.

Felix Deutsch, M.D., Cons., VAOC, Training and Super. Analyst, Boston Psychoanalytic Society and Inst., Inc.; Morris H. Adler, M.D., Cons., VAOC, Asst. Clin. Prof. Psychiat., Tufts Univ. Sch. of Med.; Lionelle D. Wells, M.D., Ch. Ment. Hygiene Serv., VAOC; Boston, Mass. (3065)

2228. Development and Validation of a Psychological Method of Ego-Strength Assessment.

J. Warren Thiesen, Ph. D., Ch. Clin. Psychol.; Stanley P. Rosenzweig, Ph. D., Clin. Psychol.; John A. MacGahan, Ph. D., Asst. Ch. Clin. Psychol., VAOC; Boston, Mass. (3066)

2229. An Investigation of Some Psychological Correlates of Involvement in Group Psychotherapy.

Stanley P. Rosenzweig, Ph. D., Clin. Psychol., VAOC; Boston, Mass. (3067)

2230. The Relation of Anxiety to Concept Formation in Schizophrenic, Neurotic, and Healthy Individuals.

Ruth L. Boss, Ph. D., Clin. Psychol. Tr., VAOC; Boston, Mass. (3068)

2231. Some Aspects of Teaching Social Work Students the Use of the Casework Relationship Through Supervision.

Eleanor Gay, M.S.S., Ch. Soc. Worker, VAOC; Boston, Mass. (3069)

2232. A Classification of Social Work Methods as Applied in Casework Therapy.

Helen E. Kee, Clin. SW, Ment. Hygiene Serv.; Mary J. Ogden, Clin. SW, Ment. Hygiene Serv., VAOC; Boston, Mass. (3070)

2233. Anxiety and Verbal Learning in Normal and Neurotic Individuals.

Paul J. Rhudick, Ph. D., Clin. Psychol., VAOC; Boston, Mass. (3073)

2234. Personality Characteristics Related to Involvement in Group Therapy.

William J. Ryan, Ph. D., Clin. Psychol., Ment. Hygiene Serv., VAOC; Boston, Mass. (3074)

2235. Methodological Study to Develop an Interaction Process Analysis System for Psychology.

Richard W. Boyd, Ph. D., Clin. Psychol., NP Research Lab.; Christopher T. Standish, M.D., Attend. Psychiat., Ment. Hygiene Serv., VAOC; Boston, Mass. (8573)

2236. Evaluation of Therapeutic Effect of Hypnosis on Chronic Skin Conditions.

Arthur W. McMahon, M.D., Psychiat.; Lazarus Secunda, M.D., Attend. Psychiat.; Oliver J. Harris, M.D., Asst. Dir. of Clinic; John A. MacGahan, Ph. D., Asst. Ch. Clin. Psychol.; Fredric Nalven, M.A., Clin. Psychol. Tr.; Ora Barkan, M.S.S., Clin. SW, VAOC; Boston, Mass. (8578)

2237. Evaluation of Outpatient Group Psychotherapy in the Rehabilitation of Schizophrenic Patients.

Stanley P. Rosenzweig, Ph. D., Super. Clin. Psychol., Ment. Hygiene Serv.; Benjamin Cohen, M.D., Attend. Psychiat., Ment. Hygiene Serv.; J. Warren Thiesen, Ph. D., Ch. Clin. Psychol., Ment. Hygiene Serv.; Theodore A. Karam, M.S., Ch. SWS, VAOC; Boston, Mass. (8579)

2238. Casework With the Aging Veterans—What Do They Need From Us?

Ruth G. Sears, M.S.S., Clin. SW, Ment. Hygiene Clinic, VAOC; Boston, Mass. (8580)

2239. The Relation of Value-Systems to Personality Changes Occurring in Individual Psychotherapy.

J. Warren Thiesen, Ph. D., Ch. Clin. Psychol., Ment. Hygiene Serv.; Paul J. Rhudick, Ph. D., Clin. Psychol., Ment. Hygiene Serv., VAOC; Boston, Mass. (8581)

2240. An Investigation of the Relationship of Adjustment Level and Ego Disjunction.

Jacob S. Nakshian, Ph. D., Clin. Psychol., VAOC; Morton Wiener, Ph. D., Cons. Psychol., VAOC, Assoc. Prof., Clark Univ.; Boston, Mass. (10064)

2241. The Identification of Recurrent Behavioral Patterns Appearing in Therapy Groups.

Alvin E. Winder, Ph. D., Clin. Psychol., VAOC; Boston, Mass. (10065)

2242. Some Characteristic Patterns of Behavior of Five Obsessive-Compulsive Veterans in Social Casework at a Mental Hygiene Clinic.

Edmund H. Lahage, SWS Tr., VAOC; Boston, Mass. (1066)

2243. A Descriptive Study of Brief Service Cases in the Social Service Department of the Boston Veterans Administration Mental Hygiene Unit.

Grace Kawamoto, SWS Tr., VAOC; Boston, Mass. (10067)

2244. Pregnancy of Wives as a Stress for Expectant Fathers.

Barbara Peck Andrews, SWS Tr., VAOC; Boston, Mass. (10069)

2245. The Effect of Corrective Therapy on NP-Tuberculosis Patients Receiving Effective Chemotherapy.

Emil Rothstein, M.D., Ch. NP-TB Unit; Brockton, Mass. (2777)

2246. Measurement of Patient Attitudes Toward Hospital Personnel.

Lewis J. Sherman, Ph. D., Clin. Psychol.; Francis E. Kelley, M.S.S.W., SW Psychiat. Eval. Proj.; Brockton, Mass. (2782)

2247. The Effect of Follow-up Recreational Counseling on Readmission Rate With Chronic Schizophrenics.

Don P. Haefner, Ph. D., Soc. Psychol.; Robert Fitzgerald, B.S., Ch. Spec. Serv.; Harry D. Purcell, Ch. Recreation Sec.; Roger G. Burrill, A.B., Soc. Recreational Spec.; Brockton, Mass. (2783)

2248. A Study of the Relationship Between the Attitudes of Relatives Toward Patients and Their Post-Hospital Adjustment.

Francis E. Kelley, M.S.S.W., SW Psychiat. Eval. Proj.; Brockton, Mass. (2784)

2249. Effect of Phenothiazine Derivatives on the Permeability of Cell Walls of Unicellular Organisms.

Irene S. Forrest, Ph. D., Research Biochem.; Fred M. Forrest, M.D., Psychiat.; Brockton, Mass. (2785)

2250. Development of Rapid, Semi-Quantitative, Simple Urinary Color Tests for the Newer Phenothiazine Derived Drugs Currently Used in Smaller Dosages, With Standardized Color Charts.

Fred M. Forrest, M.D., Psychiat.; Irene S. Forrest, Ph. D., Research Biochem.; Brockton, Mass. (2786)

2251. Investigation of Intermediary Metabolites of Phenothiazine Derived Drugs.

Irene S. Forrest, Ph. D., Biochem.; Fred M. Forrest, M.D., Psychiat.; Brockton, Mass. (2788)

2252. Comparison of Time Allocations and Techniques for Group and Individual Psychotherapy With Chronic Schizophrenic Patients.

Russell E. Mason, Ph. D., Clin. Psychol.; Brockton, Mass. (2789)

2253. Rorschach Indices in Successful Suicide.

George A. Sakheim, Ph. D., Clin. Psychol.; Paul G. Daston, Ph. D., Clin. Psychol.; Brockton, Mass. (2793)

2254. The Assessment of Ego-Integration by a Modified Word-Association Technique.

Joseph M. Sacks, Ph. D., Ch. Clin. Psychol.; Brockton, Mass. (2796)

2255. The Nature and Mechanism of Jaundice following Chlorpromazine.

Leo Waitzkin, M.D., Ch. Med. Serv.; Brockton, Mass. (2797)

2256. Factors Related to Rehospitalization of Patients on Trial Visit in Their Own Homes.

Eleanor K. Tarpy, M.S.S.W., Asst. Ch. SWS; Brockton, Mass. (2798)

2257. A Comparison of the Relative Effectiveness of Perphenazine (Trilafon) and Chlorpromazine With Schizophrenic Patients.

Fred Meyer, M.D., Ch. Acute Intensive Treatment Serv.; Paul G. Daston, Ph. D., Clin. Psychol.; Brockton, Mass. (2799)

2258. The Hooper Visual Organization Test as a Prognostic Index With Acute and Chronic Schizophrenia.

Robert G. Walker, Ph. D., Ch. Psychiat. Eval. Proj.; Francis E. Kelley, M.S.S.W., Soc. Worker, Psychiat. Eval. Proj.; Brockton, Mass. (2800)

2259. Development of a Social Judgment Test.

Joseph M. Sacks, Ph. D., Ch. Clin. Psychol.; George A. Sakheim, Ph. D., Clin. Psychol.; Joyce M. Hoffman, M.A., Soc. Psychol Tr.; Brockton, Mass. (2805)

2260. The Electrophoretic Pattern of Plasma Proteins in Subclinical Hepatic Dysfunction and Frank Jaundice Due to Chlorpromazine.

Leo Waitzkin, Ch. Med. Serv.; Brockton, Mass. (2808)

2261. Self and Job Perceptions of Nursing Aides.

Joyce M. Hoffman, M. A., Soc. Psychol. Tr.; Henry S. G. Cutter, M. A., Soc. Psychol. Tr.; Don P. Haefner, Ph. D., Soc. Psychol.; Brockton, Mass. (2809)

2262. Insight As a Prognostic Factor in Schizophrenia.

Francis E. Kelley, M. S. S. W., Soc. Worker, Psychiat. Eval. Proj.; Robert G. Walker, Ph. D., Ch. Psychiat. Eval. Proj.; Brockton, Mass. (2811)

2263. The Relationship Between Role-Preferences and Personality Characteristics of Nurses in a Psychiatric Setting.

Don P. Haefner, Ph. D., Soc. Psychol.; Brockton, Mass. (2812)

2264. A Psychological Investigation of Work Performance in Normal and Schizophrenic Groups.

James T. Mahoney, Ph. D., Counsel. Psychol.; Brockton, Mass. (2813)

2265. A Study of the Attitude of Trial Visit Patients and Their Relatives Toward the Patient's Continuing on Tranquilizing Drug Medication in the Community.

Eleanor K. Tarpy, M. S. S. W., Asst. Ch. SWS; J. Fred Glynn, Ch. SWS; Brockton, Mass. (2814)

2266. Effects of Monetary Rewards on Spontaneous Verbalizations of Chronic Shizophrenics in Group Psychotherapy.

Wilfred Calmas, M. A., Clin. Psychol. Tr.; Leland Bradbard, M. A., Clin. Psychol. Tr.; Brockton, Mass. (2815)

2267. The Influence of Therapists' Attitudes on Effectiveness of Treatment.

Lewis J. Sherman, Ph. D., Research Psychol.; Brockton, Mass. (2816)

2268. Personality Characteristics of Personnel and Patients as Determinants of Personnel's Reactions Toward Patients.

Thomas R. Brigante, Ph. D., Counsel. Psychol.; Don P. Haefner, Ph. D., Soc. Psychol.; James J. Muller, M. A., Counsel. Psychol. Tr.; Brockton, Mass. (8582)

2269. A Study of the Role of the Psychiatric Nurse As Perceived by Nurses, Other Hospital Personnel and Nursing Students.

Herbert J. Butler, M. A., Super. Psychiat. Nursing Serv., Brockton, Mass. (8583)

2270. Refinement and Further Applications of the Stotsky-Weinberg Sentence Completion Test.

J. Edward Conners, Ed. D., Ch. Counsel. Psychol.; George Wolkon, M.A., Psychol. Tr.; Reuben J. Margolin, Ed. D., Member-Employee Super.; Thomas R. Brigante, Ph. D., Counsel. Psychol.; Don P. Haefner, Ph. D., Soc. Psychol.; Brockton, Mass. (8584)

2271. Changes in Perceptions of Self and Others in Group Therapy.

Joseph M. Sacks, Ph. D., Ch. Clin. Psychol.; Joyce M. Hoffman, M.A., Soc. Psychol. Tr.; Don P. Haefner, Ph. D., Soc. Psychol.; Henry S. G. Cutter, M.A., Soc. Psychol. Tr.; Brockton, Mass. (8585)

2272. Physicians' Attitudes Toward the Effectiveness of Chemotherapy as a Factor in Patient Response to Medication.

Joseph M. Sacks, Ph. D., Ch. Clin. Psychol.; Don P. Haefner, Ph. D., Soc. Psychol.; Aaron S. Mason, M.D., Dir. Prof. Serv.; Brockton, Mass. (8586)

2273. A Comparison of Medication "Compliers" and "Resistors."

Lewis J. Sherman, Ph. D., Research Psychol.; Brockton, Mass. (8587)

2274. Role Perceptions of Self and Each Other by Clinical and Counseling Psychologists.

William B. Woodson, M.A., Couns. Psychol. Tr.; Thomas Brigante, Ph. D., Couns. Psychol.; Don P. Haefner, Ph. D., Soc. Psychol.; Brockton, Mass. (9326)

2275. Social Interaction Among Member-Employees.

Stephen T. Margulis, B.A., Soc. Psychol. Tr.; Don P. Haefner, Ph. D., Soc. Psychol.; Reuben J. Margolin, Ed. D., Member-Employee Super.; Brockton, Mass. (9327)

2276. A Pilot Study on the Use of Imipramine Hydrochloride (Tofranil) in Depressed States.

Fred M. Meyer, M.D., Psychiat.; Marie Mabry, Ph. D., Clin. Psychol.; Brockton, Mass. (9328)

2277. Relationship of Urine Excretion Rate to Clinical Behavior of Schizophrenic Patients.

Fred M. Forrest, M.D., Psychiat.; Isaac J. Tender, M.D., Psychiat.; Irene S. Forrest, Ph. D., Research Biochem.; Lewis J. Sherman, Ph. D., Research Psychol.; Brockton, Mass. (9329)

2278. The Evaluation of the Vocational Potential of Physically and Mentally Disabled Patients.

Conrad Gable; Bronx, N.Y. (4615)

2279. A Synergistic Effect of the Combined Use of Prochlorperazine and Mepazine in a Case of Schizophrenia.

Marvin Drucker, M.D., Resident, Psychiat. & Neur. Serv.; Manfred Braun, M.D., Resident, Psychiat. and Neur. Serv.; Bronx, N.Y. (4622)

2280. Psychiatric Sequelae of Heart Surgery.

Hugh F. Butts, M.D., Resident, Psychiat. & Neur. Serv.; Arthur A. Wachtel, Resident, Psychiat. & Neur. Serv.; Bronx, N.Y. (4623)

2281. Relationship Among Certain Behavior Traits, Response to Frustration, and Measures of Autonomic Function.

Julia C. Hall, Ph. D., Psychol.; Bronx, N.Y. (4638).

2282. The Relationship Between the Intensity of Emergency Response During the Learning of an Escape Response and the Subsequent Extinction of that Response.

Julia C. Hall, Ph. D., Psychol.; Bronx, N.Y. (4639)

2283. The Effects of Verbal Counter-Conditioning on Extinction of a Conditioned GSR.

Ruth I. Beach, Clin. Psychol. Tr.; Bronx, N.Y. (4641)

2284. To Investigate the Effect of Brain Lesions on Specific Abstract Language Abilities.

Frederick Cohen, Speech Therapist, PMR.; Bronx, N.Y. (4642)

2285. Anxiety and Skin Conductance.

Alan D. Karasik, Ph. D., Experiment. Psychol. Tr.; Bronx, N.Y. (4643)

2286. Suicidal Behavior in a General Hospital.

William Brown, M.D., Ch. Psychiat. and Neur. Serv.; Joseph E. Pisetsky, M.D., Act. Asst. Ch. Psychiat. and Neur. Serv.; Bronx, N.Y. (8646)

2287. Some Aspects of Casework With Paraplegics in a Rehabilitation Setting.

Aaron Rosenblatt, M.S., Clin. Soc. Worker; Vincent W. Trovato, M.S., Super. Clin. Soc. Worker; Bronx, N.Y. (8648)

2288. The Use of Glucagon in the Termination of Therapeutic Insulin Coma.

Manfred Braun, M.D., Ch. Closed Ward Sec.; Milford Parker, M.D., Career Resident, Psychiat. & Neur. Serv.; Bronx, N.Y. (8678)

2289. The "Double" or the Delusional Reduplication of the Body in a Brain-Injured Individual.

Joseph E. Pisetsky, M.D., Act. Asst. Ch. Psychiat. & Neur. Serv.; Benjamin Blatt, Ph. D., Clin. Psychol.; Bronx, NY. (8679)

2290. The Value of the Funkenstein Test as an Indicator of the Effectiveness of Tranquilizing Drugs.

Manfred Braun, M.D., Ch. Closed Ward Sect.; Seymour Rettek, M.D., Resident Psychiat.; Herbert Bengelsdorf, M.D., Resident Psychiat.; Bronx, N.Y. (8682)

2291. A Study of Accident-Proneness.

Leon Lefer, M.D., Neur. Phys.; Bronx, N.Y. (9044)

2292. Psychological and Physiological Changes in Depressed Patients Treated with Electroconvulsive Therapy or Psychotherapy or Drug Therapy.

Leon Lefer, M.D., Neur. Phys.; Bronx, N.Y. (9045)

2293. Some Relationships Between Age and Self-Perception

Kenneth L. Bloom, Psychol. Tr.; Bronx, N.Y. (9054)

2294. A Test of the "Conservation of Anxiety" Hypothesis in an Avoidance Learning Situation.

Stanley Tenen, Psychol. Tr.; Bronx, N.Y. (9055)

2295. Reserpine as Therapeutic Agent in Catatanic Schizophrenic.

Manfred Braun, M.D., Ch. Closed Ward Treatment Sect., Psychiat. & Neur. Serv.; Bertram Burall, M.D., Resident, Psychiat. & Neur. Serv.; Bronx, N.Y. (9073)

2296. Psychiatric Factors in Dental Esthetics.

Leon Lefer, M.D., Phys., Psychiat. Serv.; Lester Rosenthal, D.D.S., Resident Prosthodontia; Bronx, N.Y. (9074)

2297. Personality Reactions to Hemiplegic Disorder.

Joseph E. Pisetsky, M.D., Asst. Ch. Psychiat. & Neur. Serv.; Benjamin Blatt, Ph. D., Clin. Psychol., Psychiat. & Neur. Serv.; William Brown, M.D., Ch. Psychiat. & Neur. Serv.; Bronx, N.Y. (9211)

2298. Further Investigation of the Diagnostic Memory Scale.

Robert S. Morrow, Ch. Psychol. Sect., Psychiat. & Neur. Serv.; Bronx, N.Y. (10094)

2299. The Correlation of Psychological Functions and Neurological Findings on Twenty-Two Patients Autopsied for Brain Damage.

Robert S. Morrow, Ph. D., Ch. Psychol. Sect.; Joseph C. Mark, Ph. D., Form. Staff Psychol.; Bronx, N.Y. (10095)

2300. An Investigation of Integrative Function in Schizophrenia.

Julia C. Hall, Ph. D., Psychol.; H. Lee Hall, M.D., Attend. Psychiat.; Bronx, N.Y. (10096)

2301. A Pilot Study To Determine the Factors Which Determine Success or Failure in Overall Treatment of Tubercular Patients.

Harry L. Katz, M.D., Ch. TB Sect. Med. Serv.; Herman R. Weiss, M.D., Ch. Clin. Psychol. Sect; Brooklyn, N.Y. (2913)

2302. Auditory Feedback and Autonomic Responses.

Norman Korobow, Ph. D., Research Psychol. Neuropsychiat. Serv.; Brooklyn, N.Y. (2915)

2303. Physiological Response to High Intensity Sound.

Norman Korobow, Ph. D., Research Psychol. Neuropsychiat. Serv.; Brooklyn, N.Y. (2916)

2304. The Effects of Amputation, Heart Disease, Paraplegia and Tuberculosis on the Self-Concept.

Cecil R. Forster, Ph. D., Ch. Couns. Psychol. Sect., VAH; Martin Garnick, Tr., Teachers College, Columbia University, N.Y.; Brooklyn, N.Y. (2917)

2305. A Study of the Rehabilitation Process From the Patients' Viewpoint. The Significance of Certain Experiences and Key Personnel Relevant to Successful Rehabilitation.

Cecil R. Forster, Ph. D., Ch. Counsel. Psychol. Sect.; Irving Shelsky, Counsel. Psychol.; Harry Fiss, Counsel. Psychol.; William Pickman, Counsel. Psychol.; Martin Garnick, Counsel. Psychol.; Brooklyn, N.Y. (10793)

2306. Prediction of Success in Training of Special Rehabilitation Referrals.

Catherine A. Burnham, Ph. D., Clin. Psychol., VAOC; Brooklyn, N.Y. (2837)

2307. Development of a Method for Predicting Acceptance or Rejection of Psychotherapy.

Myron Brender, Ph. D., Clin. Psychol., VAOC; Brooklyn, N.Y. (2838)

2308. Extinction in Verbal Conditioning.

Felicia Siegel, Clin. Psychol. Tr., VAOC; Brooklyn, N.Y. (9065)

2309. Some Factors in the Social Perceptions of Authoritarians and Nonauthoritarians.

Herbert C. Schulberg, Clin. Psychol. Tr., VAOC; Brooklyn, N.Y. (9066)

2310. Shame and Harm Anxiety; Their Psychological Correlates; and Their Effects upon Performance on Learning Task.

Florence Marks, Clin. Psychol. Tr., VAOC; Brooklyn, N.Y. (9075)

2311. Generalization of Verbal Conditioning.

Sigmund Tobias, Clin. Psychol. Tr., VAOC; Brooklyn, N.Y. (9330)

2312. Sex Differences in Figure Drawing of Normal Late Adolescents: III Line Characteristics.

Herman J. P. Schubert, Ph. D., Vocat. Couns., VAH; Mazie Earle Wagner, Ph. D., Assoc. Prof. State Teachers College; Buffalo, N.Y. (2988)

2313. Analysis of Psychiatric Team.

Margaret Bongiorno, R.N., Nurse, NP Serv.; Lloyd A. Clarke, M.D., Psychiat.; Benjamin Fabrikant, Ph. D., Psychol.; Margaret Schiller, M.A., Soc. Worker; Buffalo, N.Y. (2993)

2314. An Evaluation of Psychotherapy I: Criteria for Measuring "Movement."

Benjamin Fabrikant, Ph. D., Psychol.; Egan A. Ringwall, Ph. D., Cons. Psychol.; Buffalo, N.Y. (2995)

2315. Social Censure as a Motivating Condition in the Problem Solving Behavior of Schizophrenic and Normals.

Stuart M. Losen, Ph. D., Clin. Psychol. Tr.; Buffalo, N.Y. (2998)

2316. Exploratory Study of the Relationships Between Smoking, Drinking, and Certain Diagnostic Categories.

Herman J. P. Schubert, Ph. D., Voc. Couns.; Buffalo, N.Y. (3001)

2317. The Perception of Social Desirability by Schizophrenic Patients.

Emery L. Cowen, Ph. D., Cons. Psych.; Martin G. Staiman, Ph. D., Ch. Psych., Sec.; David Wolitzky, B.S., Clin. Psychol. Tr.; Buffalo, N.Y. (3002)

2318. Comparison of Social Desirability Responses Between New Admission Schizophrenics, the Same Subjects Three Months Later, and Between Previous Norms for Schizophrenics.

Athan Karras, B.A., Psychol. Tr. (Exper.), Univ. Rochester; Martin Staiman, Ph. D., Ch. Clin. Psychol. Sec., VAH; Buffalo, N.Y. (9336)

2319. Systematic Changes in GSR as a Physiological Correlate of Learning.

Stephen H. Finesmith, Research Psychol. Tr., VAH; Walter Cohen, Ph. D., Assoc. Prof. of Psychol., Univ. of Buffalo; Buffalo, N.Y. (9337)

2320. Cooperative Study to Predict Response to Individual Psychotherapy.

Bernard B. Yormak, Ph. D., Clin. Psychol.; Buffalo, N.Y. (9338)

2321. Measuring Synchronization in EEG.

Max A. Bruck, M.D., Ph. D., Staff Psychiat.; Canandaigua, N.Y. (8688)

2322. Use of the MMPI as a Screening Device for Determining Readiness for Trial Visit or Other Regular Discharge from the Hospital.

Leonard Coleman, Ph. D., Staff Psychol.; Roy Johnston, Ph. D., Staff Psychol.; Benjamin F. McNeal, Ph. D., Ch. Clin. Psychol.; Canandaigua, N.Y. (8689)

2323. Use of the MMPI in Predicting Length of Hospital Stay of Newly Admitted Patients.

Roy Johnston, Ph. D., Staff Psychol.; Leonard Coleman, Ph. D., Staff Psychol.; Benjamin F. McNeal, Ph. D., Ch. Clin. Psychol.; Canandaigua, N.Y. (8690)

2324 An Exploration of the Therapeutic Nursing Potential of the Ward Personnel.

Karel Planansky, M.D., Psychiat.; Roy Johnston, Ph. D., Psychol.; Canandaigua, N.Y. (8691)

2325. Serotonin and Epinephrine Interrelationships.

Morris A. Lipton, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Paul Gordon, M.S., Pharm.; Chicago (Res.), Ill. (3651)

2326. The Effect of Infantile Experiences on Adult Behavior in Mammals.

Philip F. Seitz, M.D., Attend. Psychiat.; Morris A. Lipton, Ph. D., M.D., Asst. Dir. Prof. Serv. for Research; Chicago (Res.), Ill. (3655)

2327. The Ward Milieu: A Study of the Patient Group's Value Systems and Their Effects on Individual Patients.

Robert McFarland, Ph. D., Ch. Clin. Psychol.; O. J. B. Kerner, Psychol.; Chicago (Res.), Ill. (3696)

2328. The Autonomic Nervous System and Avoidance Conditioning Employing X-Irradiation as the Unconditioned Stimulus.

Jack Arbit, Ph. D., Psychol. Tr.; Chicago (Res.), Ill. (3700)

2329. Analysis of Process in Group Therapy Using an Individual Psychotherapy Model.

Paul C. Agnew, M.D., Act. Ch. Neuropsychiat. Serv.; Rigoberto J. Rodriquez, M.D., Staff Psychiat.; Chicago (Res.), Ill. (9114)

2330. Experimental Application of a Learning Procedure Involving Graded Levels of Abstract Thinking.

Paul C. Agnew, M.D., Act. Ch. Neuropsychiat. Serv., VAH; Robert K. Clark, Ph. D., Phy. Assoc., Radiol., Northwestern; R. L. McFarland, Ph. D., Psychol., Asst. Prof. Neuropsychiat., Northwestern; William T. Powers, B.S., Phy.; Chicago (Res.), Ill. (9115)

2331. Investigation of the Concept "Inadequate Exposure to the Culture" as an Explanation of Some Types of Maladaptive Behavior (Mental Illness).

Paul C. Agnew, M.D., Act. Ch. Neuropsychiat. Serv., VAH; Francis L. K. Hsu, Ph. D., Cons., VAH, Chm., Dept. of Anthropol., Northwestern; Chicago (Res.), Ill. (9116)

2332. Clinical Testing of Trifluoperazine, A New Phenothiazine Derivative.

Rigoberto J. Rodriguez, M.D., Staff Psychiat.; Chicago (Res.), Ill. (9117)

2333. The Relation of Formal Language to Projective Response.

Robert L. McFarland, Ph. D., Ch. Clin. Psychol.; Chicago (Res.), Ill. (9570)

2334. A Study of Szondi Test Factors.

Victor Jackson, Ph. D., Clin. Psychol.; Chicago (W.S.), Ill. (3781)

2335. Words as an Indicator of Inner Feeling States.

Henry H. Weiss, Ph. D., Research Clin. Psychol., OPD; Chicago (W.S.), Ill. (3782)

2336. A Survey of Testing Practices in a Mental Hygiene Clinic.

H. H. Weiss, Ph. D., Psychol.; Chicago (W.S.), Ill. (8538)

2337. Characteristics of the Mental Hygiene Clinic Population.

Henry H. Weiss, Ph. D., Research Clin. Psychol.; Chicago (W.S.), Ill. (9385)

2338. A Comparative Evaluation of Current Visual Perceptual Tests Utilized in the Study of Organic Brain Damage.

Meyer Williams, Ph. D., Ch. Clin. Psychol. Sect.; Louis Halperin, M.D., Dir. Psychiat. Neur. Serv.; Chicago (W.S.), Ill. (9386)

2339. Sociological Aspects of the Mental Hygiene Clinic Population

Henry H. Weiss, Ph.D., Research Clin. Psychol.; Marvin Bogdanoff, M.A., Clin. SW; Chicago (W.S.), Ill. (9387)

2340. Perception of Spiral After-Effect Following Cerebral Pathology.

Ranald M. Wolfe, Ph. D., Research Psychol.; Chillicothe, Ohio. (3077)

2341. Differentiating Seizures.

Richard C. Cowden, Ph. D., Clin. Psychol.; Harry A. Rock, M.D., Psychiat.; Chillicothe, Ohio. (3078)

2342. A Comparison of a Psychotic and Non-Psychotic Group on the Role of Generalized Expectancy.

Sheldon Blackman, M.A., Clin. Psychol. Tr., VAH; Julian B. Rotter, Ph. D., Cons. VAH, Dir. Psychol. Clinic, Ohio State Univ.; Chillicothe, Ohio. (3079)

2343. Perception of Balance and Response to Corrective Therapy.

Ranald M. Wolfe, Ph. D., Research Psychol.; Robert L. Davis, M.A., Correct. Therapist, PMR; Chillicothe, Ohio. (3080)

2344. Apparatus Design for the Study of Responses to the Perception of Upright Balance.

Ranald M. Wolfe, Ph. D., Research Psychol.; Chillicothe, Ohio. (3081)

2345. Control of Balance With Limited Perceptual Cues.

Ranald M. Wolfe, Ph. D., Research Psychol.; Chillicothe, Ohio. (3082)

2346. Dispositions of Patients Under Ataraxic Treatment Compared to Dispositions of Same Group Under Prior Total Push Program.

Ranald M. Wolfe, Ph. D., Research. Psychol.; Mae A. Landrum, R.N.; Chillicothe, Ohio. (3083)

2347. Mental Health Attitude Study—Hospital Day, May 5, 1957.

Russell E. Bayliff, Ph. D., Volunteer Research Coord.; Ranald M. Wolfe, Ph. D., Research Psychol.; Chillicothe, Ohio. (3087)

2348. Mental Health Attitudes of High School Students.

Russell E. Bayliff, Ph. D., Volunteer Research Coord.; Ranald M. Wolfe, Ph. D., Research Psychol.; Chillicothe, Ohio. (3088)

2349. Behavior Ratings Before and After Ataraxic Treatment.

Ranald M. Wolfe, Ph. D., Research Psychol.; Mae Landrum, R.N., Bldg. Head Nurse; Chillicothe, Ohio. (3089)

2350. A Construct Validation of Adler's Social Interest.

Vernon W. Shafer, Ph. D., Vocat. Couns. Psychol. Tr.; Chillicothe, Ohio. (3092)

2351. Decision Making Influence Status; Perceived and Ideally.

Mark Lefton, Ph. D., Ohio State Univ. and Columbus Psychiat. Inst.; Benjamin Pasamanick, M.D., Columbus Psychiat. Inst.; H. Robert Albrecht, Ph. D., Ch. Clin. Psychol. Serv., VAH; Chillicothe, Ohio. (9404)

2352. Corrective Therapy Program; Making Use of a Foreign Language.

George Jurcisin, M.A., Corrective Therapist; H. Robert Albrecht, Ph. D., Ch. Clin. Psychol. Serv.; Chillicothe, Ohio. (9405)

2353. Functional Psychosis.

Harry N. Roback, M.D., Ch. Neuropsychiat. Exam. Unit; Cleveland, Ohio. (3155)

2354. The Selection of Psychiatric Aides II: A Criterion Scale of Job Proficiency.

D. P. Schmidt, Ph. D., Clin. Psychol.; David Cohen, Ph. D., Ch. Clin. Psychol. Serv.; Coatesville, Pa. (3165)

2355. A Study of the Reliability of Ratings by Psychiatric Aides on the Multidimensional Scale for Rating Psychiatric Patients (MSRPP).

Louis T. Lepine, Ph. D., Clin. Psychol.; Coatesville, Pa. (3169)

2356. A Factor Analysis of a Criterion Rating of Psychiatric Aide Job Performance.

Louis T. Lepine, Ph. D., Clin. Psychol.; David Cohen, Ph.D. Ch. Clin. Psychol. Serv.; Coatesville, Pa. (3170)

2357. The Effect of Different Dosage Levels of Chlorpromazine upon Chronic Schizophrenic Patients.

Louis T. Lepine, Ph. D., Research Clin. Psychol., VAH, Coatesville, Pa.; Ivan F. Bennett, M.D., Ch. Psychiat. Research, VACO, Washington, D.C. (3171)

2358. Siamese Fighting Fish as a Bioassay for LSD and Related Substances.

Herbert Sprince, Ph. D., Ch. Research Biochem.; Coatesville, Pa. (3173)

2359. A Further Comparison of the Vocational Interest Profiles of a Psychotic and Normal Group.

Samuel F. Klugman, Ph. D., Clin. Psychol.; Coatesville, Pa. (3174)

2360. Indole Metabolism in Schizophrenia IV: Chemical Extraction of Ehrlich Benzaldehyde Reacting Material From the Urine of Schizophrenic and Normal Subjects.

Herbert Sprince, Ph. D., Ch. Research Biochem.; Dorothy Jameson, B.A., Phys. Science Tech.; Clarence M. Parker, B.A., Chem.; F. C. Dohan, M.D., Cons. Metab. Diseases; Coatesville, Pa. (3175)

2361. A Factorial Study of Two Psychological Tests for Predicting College Success.

Samuel F. Klugman, Ph. D., Clin. Psychol.; Coatesville, Pa. (3176)

2362. A Note on Sociometric Choice.

Louis T. Lepine, Ph. D., Research Clin. Psychol.; Coatesville, Pa. (3177)

2363. An Empirical Test of a Theory of Social Powers.

Louis T. Lepine, Ph. D., Research Clin. Psychol.; C. P. Cummings, Ph. D., Clin. Psychol.; R. Johnston, Ph. D., Clin. Psychol.; S. J. Benarick, Ph. D., Clin. Psychol.; Byron F. Wight, Clin. Psychol. Tr.; Coatesville, Pa. (3178)

2364. Electrophoretic Studies of Blood Proteins in Schizophrenia.

Frank B. Lynch, Jr., M.D., Ch. Lab. Serv.; Coatesville, Pa. (3182)

2365. Hypothalamic Lesions and Feeding Behavior in the Monkey.

Charles L. Hamilton, Ph. D., Exper. Psychol.; Coatesville, Pa. (3183)

2366. Performance of Rats on Avoidance Conditioning and Escape Training After Injection of LSD–25.

Charles L. Hamilton, Ph. D., Experimental Psychol.; Coatesville, Pa. (3184)

2367. Visual Discrimination in the Rat and Monkey After LSD–25 Injections.

Charles L. Hamilton, Ph. D., Experiment. Psychol.; Coatesville, Pa. (3185)

2368. Coding Scheme for Kuder Preference Record, Vocational.

Samuel F. Klugman, Ph. D., Clin. Psychol.; Coatesville, Pa. (3186)

2369. Peptic Ulcer in Psychotic Patients; Second Four-year Survey.

Bettie W. Hiles, M.D., Ch. Med. Serv.; Coatesville, Pa. (3187)

2370. The Inhibition Process, Rorschach Movement Responses and Intelligence: Some Further Data.

Murray Levine, The Devereux Foundation, Devon, Pa.; George Spivack, The Devereux Foundation, Devon, Pa.; Byron Wight, Ph. D., Clin. Psychol., VAH; Coatesville, Pa. (3188)

2371. Evaluation of Modified Akerfeldt Blood Test in Schizophrenia.

Herbert Sprince, Ph. D., Ch. Research Biochem.; Dorothy Jameson, B.A., Phys. Science Tech.; Coatesville, Pa. (3189)

2372. A Stable Stochastic Process Underlying Behavior Changes in Schizophrenics.

Louis T. Lepine, Ph. D., Research Clin. Psychol.; Coatesville, Pa. (3190)

2373. Stochastic Processes in Behavior Research.

Louis T. Lepine, Ph. D., Research Clin. Psychol.; Coatesville, Pa. (3191)

2374. A Staff Development Program in Psychiatric Nursing.

Joyce E. Samhammer, R.N., M.S., Instr. in Psychiat. Nursing; Coatesville, Pa. (3192)

2375. Effect of Group Cohesiveness and Training upon Problem Solving.

David Cohen, Ph. D., Ch. Psychol. Serv.; John W. Whitmyre, Ph. D., Clin. Psychol. Serv.; W. H. Funk, Asst. Manager; Coatesville, Pa. (8745)

2376. Olfactory Preferences of Psychotic Patients.

Charles L. Hamilton, Ph. D., Experiment. Psychol., VAH; Marvin Stein, M.D., Asst. Prof., Dept. of Psychiat., Univ. of Pennsylvania; Perry Ottenberg, M.D., Instr., Dept. of Psychiat., Univ. of Pennsylvania; Coatesville, Pa. (8746)

2377. The Effects of Various Drugs Upon the Speed of Tapping in a Schizophrenic Group.

Samuel F. Klugman, Ph. D., Psychol. Serv.; Coatesville, Pa. (8747)

2378. The Effect of Task Effort on the Extinction and Spontaneous Recovery of an Avoidance Response in the White Rat.

John R. Roark, Psychol. Tr.; Coatesville, Pa. (8751)

2379. Effect of Group Cohesiveness and Training Upon Creative Thinking.

David Cohen, Ph. D., Ch. Clin. Psychol.; John R. Whitmyre, Ph. D., Clin. Psychol.; William H. Funk, Asst. Manager; Coatesville, Pa. (9080)

2380. Lysergic Acid Combined With ECT in the Treatment of Chronic Schizophrenia.

Alan Kulick, M.D., Asst. Ch. Acute Intensive Treatment Serv.; George Sharshon, M.D., Resident Psychiat., Acute Intensive Treatment Serv.; Coatesville, Pa. (9081)

2381. Development of a Method for the Measurement of Pure Indolic Substances Likely To Be Found in Human Body Fluids.

F. Curtis Dohan, M.D., Cons. Metab. Dis.; Marjorie Knowlton, B.S., Chem.; Herbert Sprince, Ph. D., Ch. Research Biochem.; Coatesville, Pa. (9406)

2382. Development of a Method for Quantitation of Indolic Substances Separated by Paper Chromatography.

F. Curtis Dohan, M.D., Cons. Metab. Dis.; Dorothy Jameson, B.A., Phys. Scien. Tech.; Herbert Sprince, Ph. D., Ch. Research Biochem.; Coatesville, Pa. (9407)

2383. Isolation and Quantitation of Unknown Indoles From Urine of Schizophrenic *vs.* Normal Subjects.

Herbert Sprince, Ph. D., Ch. Research Biochem.; Dorothy Jameson, B.A., Phys. Scien. Tech.; Clarence M. Parker, B.S., Chem.; F. Curtis Dohan, M.D., Cons. Metab. Dis.; Marjorie Knowlton, B.S., Chem.; Coatesville, Pa. (9408)

2384. Choline Antagonism to Indolic Psychotomimetic Compounds as Measured by Indoxylacetate Hydrolysis in Human Serum.

Herbert Sprince, Ph. D., Ch. Research Biochem., VAH; Irwin Lichtenstein, Research Tech., Dept. Psychiat., Univ. Pennsylvania; Coatesville, Pa. (9409)

2385. Team Work on an Exit Ward for the Chronically Ill.

Bede F. Howard, M.D., Ch. Cont. Treatment Serv.; Coatesville, Pa. (9410)

2386. Indole Metabolism in Schizophrenia I: The Nature of the Ehrlich Benzaldehyde Reaction on Indole Compounds. Paper Chromatographic Spectrophotometric and Colorimetric Measurements.

Herbert Sprince, Ph. D., Ch. Research Biochem.; Dorothy Jameson, B.A., Phys. Science Tech.; Marjorie Knowlton, B.S., Chem.; F. Curtis Dohan, M.D., Cons. Metab. Diseases; Coatesville, Pa. (10160)

2387. Clinical Ratings in Areas of Conflict and Measures of Autonomic Responsivity.

Thomas R. Scott, Ph. D., Clin. Psychol.; Monte D. Garnette, Research Asst.; Mary C. Trevathan, M.A., SW, Columbia, S.C. (10139)

2388. Detecting Areas of Neurotic Conflict With Measures of Autonomic Responsivity.

Thomas R. Scott, Ph. D., Clin. Psychol.; Monte D. Garnette, Research Asst.; Rufus E. Medlin, M.D., Ward Phys.; Columbia, S.C. (10140)

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2389. Personality and Autonomic Responsivity of Angina Patients.

Thomas R. Scott, Ph. D., Clin. Psychol.; Franklin G. Hoffman, M.D., Ward Phys.; Columbia, S.C. (10141)

2390. Rate of Change of Perceived Size in the Archimedes Spiral Aftereffect.

Thomas R. Scott, Ph. D., Clin. Psychol.; Roy G. Smarr, M.D., Ch. P&N Serv.; Columbia, S.C. (10142)

2391. Method of Measurement and Data Treatment and the Predictive Value of Heart Rate.

Monte D. Garnette, Research Asst.; Columbia, S.C. (10143)

2392. Psychological Evaluation of Brain Involvement in Multiple Sclerosis.

Charles A. Stenger, Ph. D., Ch. Clin. Psychol.; Coral Gables, Fla. (3233)

2393. Personal Adjustment Norms in an Occupational Group as Related to Aging.

H. Ladd McLinden, B. Ed., Asst. Ch. Personnel Div.; Charles A. Stenger, Ph. D., Ch. Clin. Psychol.; Coral Gables, Fla. (3236)

2394. Stress and the Autokinetic Effect.

Henry B. Matty, Jr., M.A., Psychol. Tr.; Louis W. Bova, Jr., M.A., Psychol. Tr.; Coral Gables, Fla. (3238)

2395. Ranking of Rorschach Cards by Schizophrenic Patients According to Five Variables.

Charles A. Stenger, Ph. D., Ch. Clin. Psychol., VAH; Harold C. Peters, Ph. D., Clin. Psychol., Univ. Miami Sch. Med.; Coral Gables, Fla. (3239)

2396. Conditioning Adrenal Hypertrophy in the Rat to an Innocuous Stimulus.

Henry B. Matty, Jr., M.A., Psychol. Tr.; Coral Gables, Fla. (3240)

2397. The Effect of a Hospital Rehabilitation Program on Patient Personality Adjustment.

Mabel K. Gibby, Ed. D., Psychol. Tr.; Henry B. Matty, M.A., Psychol. Tr.; Coral Gables, Fla. (8507)

2398. Identification of Sexual Symbolism in Line Qualities.

H. B. Matty, Jr., Psychol. Tr., Neuropsychiat. Serv.; Mabel Gibby, Ed. D., Psychol. Tr., Neuropsychiat. Serv.; Coral Gables, Fla. (8509)

2399. First Names of Neuropsychiatric Patients.

H. B. Matty, Jr., Psychol. Tr., Neuropsychiat. Serv.; Charles A. Stenger, Ph. D., Clin. Psychol., Neuropsychiat. Serv.; Coral Gables, Fla. (8510)

2400. Experimental Study of Suppressed Aggression in Essential Hypertension.

Leah B. McDonough, Ph. D., Psychol. Tr. Neuropsychiat. Serv.; Coral Gables, Fla. (8511)

2401. Effect of Verbal Stimulation on Electromyograms of Neuropsychiatric Patients.

Louis N. Gould, M.D., Ch. Ment. Hygene Clin.; Henry B. Matty, Ph. D., Coord. Psychol. Research; Coral Gables, Fla. (9362)

2402. Correlation of Physiologic Response and Rorschach Behavior.

John B. Geers, Ph. D., Psychol.; Dallas, Tex. (3279)

2403. Follow-up Study of Discharged Service-Connected Tuberculosis Patients.

John B. Geers, Ph. D., Psychol.; Dallas, Tex. (10334)

2404. A Study of Encouragement of Confused Identification by Mothers of Neurotic Boys.

A. L. Miller; Danville, Ill. (8372)

2405. Some Aspects of Communication in Neurosis and Psychotherapy.

Thomas H. Lynch; Danville, Ill. (8373)

2406. Insulin Therapy in VA Hospitals.

Otto Schaefer, M.D., Manager; Danville, Ill. (9357)

2407. The Relation of Electroencephalographic Indices of Arousal and Responsivity to the Process-Reactive Concept of Schizophrenia.

Henry F. Gromoll, Jr., Couns. Psychol. Tr.; Hines and Danville, Ill. (9358)

2408. The Effects of Immediately Preceding Experiences Upon Early Childhood Recollections.

Eleanor B. Hedvig, Clin. Psychol. Tr., Psychol. Serv.; Danville, Ill. (9359)

2409. Casework Interviews With Domiciliary Members Presenting Disciplinary Problems.

Richard V. Pawlewicz, Clin. Soc. Worker; Dayton, Ohio. (12041)

2410. Temaril—An Investigation of Safety and Effectiveness.

Hans Neuer, M.D., Ch. Psychiat. Serv.; Donald Rogers, M.D., Ward Phys.; Dayton, Ohio. (12042)

2411. Thesis: The Adjustment of Families of Veterans Who Were Hospitalized for Long-Term Illness.

Rachel E. Wilcox, SWS Tr.; Dayton, Ohio. (12066)

2412. Use of Central Nervous System Stimulant (Ritalin-Ciba).

Mir Nisam, M.D., Ch. Intermed. Serv.; Dayton, Ohio. (12067)

2413. Investigation of Auditory Memory Span Among Children.

C. L. Johnson, Language Retraining Therapist; Dayton, Ohio. (12072)

2414. Myography and Emotions.

Hans Neuer, M.D., Ch. Psychiat. Serv.; Ronald Rogers, M.D., Ward Phys.; Dayton, Ohio. (12073)

2415. Investigation of a New Drug (R–05–0831/1) La Roche Laboratories.

Hans Neuer, M.D., Ch. Psychiat. Serv.; Donald Rogers, M.D., Ward Phys.; Dayton, Ohio. (12074)

2416. Mental Development of Hydrocephalic.

Mildred Mitchell, Ph. D., Psychol.; Dayton, Ohio. (12075)

2417. An Evaluation of 1,000 Abnormal Electroencephalograms.

J. L. Kubanek, M.D., Ch. Neuropsych. Serv.; Dearborn, Mich. (3456)

2418. A Prediction of Improvement and Length of Psychotherapy.

Lawrence S. Rogers, Ph. D., Ch. Clin. Psychol.; Denver, Colo. (3509)

2419. Word Chain Associations as Diagnostic Devices.

Lewis Bernstein, Ph. D., Ch. Clin. Psychol., VAH; Victor C. Raimy, Psychol., Univ. of Colorado Sch. of Med.; Denver, Colo. (3512)

2420. Physiologic and Psychologic Effects of Handling in the Rat.

H. Elrick, M.D., Ch. Research Lab., RI Serv.; L. Bernstein, Ph. D., Ch. Clin. Psych.; J. M. Whitehouse, Psychol. Tr.; D. Borda-Bossana, Ph. D., Guest Scien.; Denver, Colo. (3513)

2421. Cooperative Study To Predict Response to Individual Psychotherapy.

Harl H. Young, Jr., Ph. D., Research Clin. Psych.; Denver, Colo. (3521)

2422. The Role of Cue-patterning in Psychodiagnosis.

A. R. Mahrer, Ph. D., Asst. Ch Psychol., VAH; Thomas Thorp, Psychol. Tr., Univ. of Colo. Psychol. Dept.; Lewis Bernstein, Ph. D., Ch. Psychol., VAH; Denver, Colo. (9445)

2423. Relation Between Animal Responses in the Rorschach and Attitudes Toward Parental Discipline.

L. S. Rogers, Ph. D., Ch. Clin. Psychol., Ment. Hygiene Clin.; E. Pile, AB, Psychol. Tr., Ment. Hygiene Clin.; Denver, Colo. (9446)

2424. An Investigation of the Relationship Between Length of Psychotherapy and Residence Distance From a Treatment Facility.

L. S. Rogers, Ph. D., Ch. Clin. Psychol. Ment. Hygiene Clin.; E. Pile, AB, Psychol. Tr., Ment. Hygiene Clin.; Denver, Colo. (9447)

2425. The Decision Making Process in the Mental Hospital: An Empirical Study of Dispositional Decisions.

Nicos Mouratides, M.A., Sociologist, Lake Forest Coll., Ill.; Leonard D. Borman, Ph. D., Ch. Anthro. Serv., VAH; Downey, Ill. (3825)

2426. Toxicity Studies of the Principal Tranquilizers.

M. A. Jacobson, Ph. D., M.D., Ch. Lab. Serv.; Berkley Johnson, M.S., Bact.; Downey, Ill. (3838)

2427. The Effects of Tranquilizing Drugs in the Production of Antibody Response.

Berkley Johnson, M.S., Bact., Lab. Serv.; M. A. Jacobson, Ph. D., M.D., Ch. Lab. Serv.; Downey, Ill. (3839)

2428. Electrophoretic Patterns in Schizophrenic Blood.

Jim Custod, M.S., Biochem., Lab. Serv.; H. W. Marlow, Ph. D., Asst. Ch. Lab. Serv.; Downey, Ill. (3842)

2429. Metabolic Problems Related to Ataractic Drugs.

James Custod, M.S., Biochem.; H. W. Marlow, Ph. D., Biochem. and Asst. Ch. Lab. Serv.; Downey, Ill. (3843)

2430. Determination of Copper (Ceruloplasmin) in Schizophrenic Serum.

James Custod, M.S., Biochem.; H. W. Marlow, Ph. D., Asst. Ch. Lab. Serv.; Downey, Ill. (3844)

2431. An Investigation of Success and Failure in Trial Visit Adjustment.

Carl F. Buer, Ph. D., Psychol. Serv.; Julian H. Pathman, Ph. D., Psychol. Serv.; Downey, Ill. (8541)

2432. A Study of Social Class and Mental Illness in a Veterans Hospital.

Jane Hittinger, B.A., SWS Tr.; Downey, Ill. (8542)

2433. A Comparison of Group Performance of Psychiatric Patients With Normal Subjects on a Test of Contact With Reality.

Keith K. Hoover, Ph. D., Psychol. Serv.; Downey, Ill. (8543)

2434. The Impact of Family Attitudes on the Patient's Initial Adjustment During Trial Visit.

Barbara Jean Meadows, B.A., SWS Tr.; Downey, Ill. (8544)

2435. A Study of the Role of the Psychologist in the Mental Hospital.

Sherman E. Nelson, Ph. D., Psychol. Serv.; Downey, Ill. (8545)

2436. The Effect of Increased Personal Attention on the Functioning Level of Chronic, Geriatric, NP Patients.

Leroy A. Goodrich, Ph. D., Couns. Psychol., VAH; Julian H. Pathman, Ph. D., Coord., Research & Training, Psychol. Serv., VAH; Robert I. Watson, Ph. D., Cons., VAH, Prof. Psychol., Northwestern Univ.; Charlotte Cyzak, M.A., Nurs. Serv., VAH; Downey, Ill. (9344)

2437. An Evaluation of the Archimedes Spiral Phenomenon and Flicker Fusion Frequency as Diagnostic Indicators of Intracranial Pathology.

George G. Katz, Ph. D., Clin. Psychol.; Julian H. Pathman, Ph. D., Coord., Research & Training, Psychol. Serv.; Downey, Ill. (9345)

2438. Hospital-Community Relations: An Assessment of Value-Attitudes Among Personnel, Volunteers, and Patient Relatives.

Leonard D. Borman, Ph. D., Ch. Anthro. Serv.; Frank Baker, B.A., Soc. Psychol. Tr.; Donald Campbell, Ph. D., Cons. VAH, Prof. Soc. Psychol., Northwestern Univ.; Jack Hicks, M.A., Soc. Psychol. Tr.; Fred Strodtbeck, Ph. D., Cons. VAH, Assoc. Prof. Soc. Psychol., Univ. of Chicago; Warner Wilson, M.A., Soc. Psychol. Tr.; Downey, Ill. (9346)

2439. Operational Research in Patient Self-Government.

Leonard D. Borman, Ph. D., Ch. Anthro. Serv.; Marshall Chrablow, B.S., Med. Illus. Serv.; John Gillin, Ph. D., Cons. VAH, Prof. Anthro., Univ. of North Carolina; Jack Mockabee, B.A., Recreation Super.; Downey, Ill. (10148)

2440. Assessment of a Staff Development Program on a Disturbed Ward.

Leonard D. Borman, Ph. D., Ch. Anthro. Serv.; William C. Littlewood, M.A., Soc. Psychol. Tr.; Downey, Ill. (10149)

2441. Factors Present in Manic-Depressive Patients Irrespective of Socio-Economic Status and Race.

Joseph B. Parker, Jr., M.D., Ch. Psychiat. Serv.; C. Spielberger, Ph. D., Attend. Psychol.; Durham, N.C. (3945)

2442. Normal Electrocortical Activity and Personality.

Edward J. Kelty, Ph. D., Clin. Psychol. Serv., VAH, Montrose, N.Y.; Walter D. Obrist, Ph. D., Assoc. Prof. Psychol., Duke Univ.; Paul G. Daston, Ph. D., Ch. Psychol. Serv., VAH; Durham, N.C. (9087)

2443. Psychiatric and Sociological Study of Patients With Parkinson's Disease.

Robert L. Green, Jr., M.D., Clin. Invest.; Muriel J. McLauchlin, M.S.W., Research Social Caseworker; Durham, N.C. (9500)

2444. Prediction of Successful Suicide From the Rorschach, Using a Sign Approach.

Paul G. Daston, Ch. Psychol., VAH; George A. Sakheim, Staff Psychol., VAH, Brockton, Mass.; Durham, N.C. (9521)

2445. Study of Manic-Depressive Character and Behavior.

Joseph B. Parker, Jr., M.D., Ch. Psychiat. Serv., VAH; Charles D. Spielberger, Ph. D., Psychol. Attend. VAH, Asst. Prof. Psychol., Duke Med. Cen.; Joseph Becker, Clin. Psychol. Tr., VAH; Robert D. Borgman, Jr., A.B., Clin. Tr.; Durham, N.C. (9522)

2446. Alcoholism in Major Mental Disorders.

Joseph B. Parker, Jr., M.D., Ch. Psychiat. Serv.; Richard M. Meiller, M.D., Asst. Ch. Psychiat. Serv.; Durham, N.C. (9523)

2447. Affective Behavior and Attitudes of Marital Partners Influencing Manic-Depressive Illness.

Muriel McLauchlin, M.S.W., Research Soc. Caseworker; Joseph B. Parker, Jr., M.D., Ch. Psychiat. Serv.; Durham, N.C. (9524)

2448. An Investigation of Motor-Expressive Characteristics of Psychosomatic and Neurotic Cases.

Rebecca Snyder, Ph. D., Psychol.; East Orange, N.J. (4035)

2449. The Degree of Generalization of Specific Perceptual Attitudes or Sets.

Allen Raskin, Ph. D., Psychol.; East Orange, N.J. (4039)

2450. Studies From the Perception Laboratory.

William H. Ittelson, Ph. D., Cons., VAH, Prof. Psychol., Brooklyn College, N.Y.; Samuel B. Kutash, Ph. D., Ch. Psychol. Serv., VAH; East Orange, N.J. (4040)

2451. Size Perception of Psychiatric Patients Using Stimuli Evoking Interpersonal Affective Attitudes.

Arthur Willner, M.A., Psychol. Tr.; East Orange, N.J. (4042)

2452. An Evaluation of the Effects of Patient Government on Patient Attitudes and Interactions.

Kenneth K. Berman, M.D., Asst. Ch. Psychiat. Serv.; Joan Welkowitz, M.A., Psychol. Tr.; Bernard Seidenberg, Ph. D., Research Psychol.; East Orange, N.J. (4044)

2453. Therapists' Needs and Judgments of Patients' Needs.

Theodore H. Monsma, M.A., Psychol. Tr.; East Orange, N.J. (4045)

2454. Auditory Perception of Emotion Among Schizophrenics.

John leB. Turner, M.A., Psychol. Tr.; East Orange, N.J. (4046)

2455. Behavior Patterns in Group Psychotherapy Sessions.

Joan Welkowitz, M.A., Psychol. Tr.; East Orange, N.J. (4047)

2456. Social Psychological Aspects of Hospital Adjustment in TB Veterans.

Bernard Seidenberg, Ph. D., Research Psychol.; East Orange, N.J. (4049)

2457. Generalization of Verbal Conditioning.

Sigmund Tobias, M.A., Psychol. Tr.; East Orange, N.J. (4050)

2458. Values and Distance.

Max Prola, M.A., Psychol. Tr.; East Orange, N.J. (4051)

2459. Verbal Communication of Schizophrenic Patients.

Stanley Feldstein, M.A., Psychol. Tr.; East Orange, N.J. (4052)

2460. Study of Patient Morale as a Function of Attitudes Related to Changes in Self-Concept and Life Situation.

Joan Welkowitz, M.A., Psychol. Tr.; Bernard Seidenberg, Ph. D., Research Psychol.; East Orange, N.J. (4053)

2461. An Evaluation of the Symptomatic Treatment of the Physical Disabilities of Conversion Reaction.

Charles R. Brooke, M.D., Ch. PMR Serv.; Kenneth K. Berman, M.D., Asst. Ch. Psych. Serv.; Edward D. Friedman, M.A., Ch. Correct. Therapy; Samuel B. Kutash, Ph. D., Ch. Psychol. Serv.; East Orange, N.J. (4054)

2462. Report of Social Work Research. A Study of Referral Procedures and Their Effectiveness.

Lois I. Duncan, S.W.C., Ch. SWS; David L. Anderson, M.S.W., Clin. Soc. Work.; William Thomas, M.S.W., Clin. Soc. Work.; Charles Nakoa, M.S.S., Clin. Soc. Work.; East Orange, N.J. (4055)

2463. Factors Related to the Attitudes of Patients Toward the Hospitalization Experience.

M. Herbert Fineberg, M.D., Manager; Richard Christie, Ph. D., Cons. Psychol. Serv.; Samuel B. Kutash, Ph. D., Ch. Psychol. Serv.; Bernard Seidenberg, Soc. Psychol. Tr.; East Orange, N.J. (8620)

2464. Social Status and Progress Toward Health on a TB Ward.

Bernard Seidenberg, Soc. Psychol. Tr.; Reuben Starishevsky, Couns. Psychol. Tr.; East Orange, N.J. (8622)

2465. Perceptual Changes in Psychopathology.

Samuel B. Kutash, Ph. D., Ch. Psychol. Serv.; Henry Kavekewitz, Ph. D., Coord. Research, Psychol. Serv.; East Orange, N.J. (9415)

2466. Perceptual Flexibility and Psychiatric Diagnosis.

William H. Ittelson, Ph. D., Cons. Psychol. Serv.; Samuel B. Kutash, Ph. D., Ch. Psychol. Serv.; Bernard Seidenberg, Ph. D., Research Psychol.; East Orange, N.J. (9416)

2467. Dependency as a Variable for Predicting Ward Adjustment of Hospitalized TB Patients.

Allen Raskin, Ph. D., Psychol.; Henry Kavekewitz, Ph. D., Coord. Research, Psychol. Serv.; East Orange, N.J. (9417)

2468. Ulcerative Colitis—Psychosomatic Aspects.
a. Racial and epidemiologic factors.
b. Intelligence factors.

Hyam A. Weiner, M.D., Ch. Med. Serv.; Charles M. Lewis, M.D., Attend. Med. Serv.; Rebecca Snyder, Ph. D., Psychol.; East Orange, N.J. (9418)

2469. Effect of Patient's Attitude Toward Hospitalization on Early Response to Treatment.

Hiram L. Gordon, Ph. D., Coord., Psychiat. Evalu. Proj.; Clarence Groth, M.S.W., Soc. Worker, Psychiat. Evalu. Proj.; Fort Lyon, Colo. (4084)

2470. Census of Unvisited Neuropsychiatric Patients and the Effect of Different Kinds of Letters in Stimulating Relatives' Visits.

Clarence Groth, M. SW., Soc. Worker, Psychiat. Eval. Proj.; Hiram L. Gordon, Ph. D., Coord., Psychiat. Eval. Proj.; Frank Dietrich, M. SW., Ch. Soc. Work Serv.; Fort Lyon, Colo. (4088)

2471. A Study of Trial Visits Released in 1957.

Frank R. Dietrich, Ch. Soc. Work Serv.; Fort Lyon, Colo. (8496)

2472. Evaluation of the Effectiveness of a Member-Employee Program.

Hiram L. Gordon, Ph. D., Area Coord., Psychiat. Eval. Proj.; George D. Allen, M.A., Exec. Asst. PMR Serv.; Clarence Groth, M.S.W., Soc. Worker, Psychiat. Eval. Proj.; Fort Lyon, Colo. (8497)

2473. Study of Patient Attitudes Toward Group Therapy.

Everett N. Pile, Clin. Psychol. Tr.; Fort Lyon, Colo. (9425)

2474. A Behavioral Description of Patients in VA NP Hospital.

Harriette S. Atkinson, Clin. Psychol. Tr.; Fort Lyon, Colo. (9426)

2475. Relationship of Experimental Manipulation of Anxiety Level to Degree of Secondary Reinforcement.

John M. Woodbury, Clin. Psychol. Tr.; Fort Lyon, Colo. (9427)

2476. Effect of Assignment of a Nursing Assistant to a Permanent Group of Patients in Increasing Therapeutic Interaction.

James Catney, R.N., Asst. Ch. Nurs. Serv.; Earl G. Guyer, Ph. D., Asst. Ch. Clin. Psychol. Dept.; Jack S. Griffiths, Ph. D., Ch. Clin. Psychol. Dept.; Fort Lyon, Colo. (9428)

2477. Differences in Meaning of Certain Concepts Between Patients Wanting to Leave the Hospital and Those Wanting to Remain.

Hiram L. Gordon, Ph. D., Coord. Psychiat. Eval. Proj.; Clarence Groth, M. SW., Soc. Worker, Psychiat. Eval. Proj.; Fort Lyon, Colo. (9429)

2478. Effect of Fluctuations in Weather Conditions on Patient Behavior.

Hiram L. Gordon, Ph. D., Coord. Psychiat. Eval. Proj.; Earl G. Guyer, Ph. D., Asst. Ch. Clin. Psychol. Dept.; Jack S. Griffiths, Ph. D., Ch. Clin. Psychol. Dept.; Fort Lyon, Colo. (9430)

2479. The Therapeutic Value of Small Patient Groups in Ward Administration.

Jack S. Griffiths, Ph. D., Ch. Clin. Psychol. Serv.; Harriette S. Atkinson, M.A., Clin. Psychol. Tr.; Arthur Z. Orzeck, Ph. D., Clin. Psychol.; Fort Lyon, Colo. (9431)

2500. Study of the Self Image in Patients with Spinal Cord Injuries.
Hirsh Wachs, M.D., Resident, Neur. Serv.; Hines, Ill. (10347)

2501. Evaluation of a Program of Short-Contact Psychotherapy with Neurologically Disturbed Patients.
Wilma Inskip, Ph. D., Clin. Psychol.; Hines, Ill. (10348)

2502. The Effects of "Repression" Upon Intellectual Functioning.
Reid I. Martin, M.A., Clin. Psychol. Serv.; Hines, Ill. (10349)

2503. Correlation of Behavior Changes Following Electroshock Therapy with Blood Levels of Desoxribonucleic, Ribonucleic Acid and Adenine Nucleotides.
Lloyd W. Ravlin, M.D., Resident Psychiat.; Joseph Bernsohn, Ph. D., Biochem., Research Serv.; Louis Jensen, M.D., Ch. Psychiat. Serv.; Hines, Ill. (10400)

2504. MMPI Changes With Aging.
A. W. Foley, Ed. D., Ch. Clin. Psychol. Serv.; Hot Springs, S.D. (4171)

2505. Group Testing for Psychological Evaluation of Domiciliary Members.
A. W. Foley, Ed. D., Ch. Clin. Psychol. Serv.; Hot Springs S.D. (4172)

2506. Perceptions of Time, Space, and Mass as Related to Other Mental Functions.
A. W. Foley, Ed. D., Ch. Clin. Psychol. Serv.; Hot Springs, S.D. (4173)

2507. Attempt to Determine Experimentally the Role of Cerebellum in Behavior.
John H. Perry, Ph. D., Asst. Prof. Anat., Baylor Univ.; Alex D. Pokorny, M.D., Ch. Psychiat. and Neur. Serv., VAH; Houston, Tex. (4420)

2508. Trial of Elipten (BA–16038, Ciba) in the Treatment of Uncontrolled Seizures.
Israel H. Schuleman, M.D., Ch. Neur. Sec.; Houston, Tex. (4423)

2509. Psychological Factors in Various Types of Visual Disturbances.
Sidney E. Cleveland, Ph. D., Asst. Ch. Psychol. Serv.; Houston, Tex. (4427)

2510. An Evaluation of Preventive Psychotherapy in Problems of Early Behavioral Disorganization.
Robert B. Morton, Ph. D., Ch. Psychol. Serv.; Alex D. Pokorny, M.D., Ch. Psychiat.-Neur. Serv.; Houston, Tex. (4430)

2511. Differences in Relation Between Test Intelligence and Conceptual Behavior as Function of Clinical Grouping.
Laurence S. McGaughran, Ph. D., Psychol.; Louis J. Moran, Ph. D., Research Psychol., VAH; Donald B. Leventhal, Psychol., Topeka State Hosp., Topeka, Kans.; Houston, Tex. (4431)

2512. A Study of Psychological Factors Involved in Adjustment to Body Disablement.

Robert B. Morton, Ph. D., Ch. Psychol. Serv.; Houston, Tex. (4433)

2513. Physiological Response Patterns in Schizophrenia and Psychosomatic Disease.

Sidney E. Cleveland, Ph. D., Asst. Ch. Psychol. Serv., VAH; Seymour Fisher, Ph. D., Asst. Prof. Psychol., Baylor Univ.; Houston, Tex. (4435)

2514. Diurnal Variability in Human Behavior.

Robert B. Morton, Ph. D., Ch. Psychol. Serv., VAH; Wayne Holtzman, Ph. D., Cons., VAH, Prof. Psychol., Univ. of Texas, Dir. Research, Hogg Foundation; Houston, Tex. (4441)

2515. Predicting Patient Participation in PMRS Treatment.

Dale L. Johnson, Ph. D., Psychol.; Lewis A. Leavitt, M.D., Ch. PMR Serv.; Houston, Tex. (8781)

2516. A Proposed Investigation of the Effectiveness of Sound Recorded Semi-Autonomous Group Therapy.

Dale L. Johnson, Ph. D., Psychol.; George E. Wiggins, M.D., Ward Phys., Psychiat. and Neur. Serv.; Houston, Tex. (8782)

2517. Variability in the Linguistic Structure and Conceptual Organization of Neuropsychiatric Patients.

Robert B. Morton, Ph. D., Ch. Psychol. Serv.; Dale L. Johnson, Ph. D., Psychol.; Donald E. Walker, Ph. D., Psychol.; Houston, Tex. (8792)

2518. Psychological Aspects of Aging No. 2.

Robert B. Morton, Ph. D., Ch. Psychol. Serv.; Laurence S. McGaughran, Ph. D., Psychol.; Houston, Tex. (8793)

2519. Survey of Clinical and Other Available Records of Patients Who Subsequently Committed Suicide.

Alex D. Pokorny, Ch. Psychiat. and Neur. Serv.; Ruth Ward, Volunteer; Houston, Tex. (8795)

2520. Preliminary Study To Determine the Effectiveness of the New Drug, Ro 5–0831/1.

Isham Kimbell, Jr., M.D., Ch. Closed Wards Sect.; Houston, Tex. (8965)

2521. Clinical Trial of Ro 4–0403.

Alex D. Pokorny, M.D., Ch. Psychiat. and Neur. Serv.; Isham Kimbell, Jr., M.D., Ch. Closed Wards Sect.; Houston, Tex. (8967)

2522. Response to Homonyms of Alcoholic, Hypochondriacal, and Anti-Social Psychiatric Patients.

George M. Faibish, Ph. D., Psychol.; Houston, Tex. (9127)

2523. Patterns of Psychopathology Among the Zuni and Navaho Indians.

Dale L. Johnson, Ph. D., Clin. Psychol., VAH; Bert Kaplan, Ph. D., Assoc. Prof. Psychol, Univ. of Kansas; Sherman Eisenthal, M.A., Psychol. Stud., Univ. of Kansas; Carmen A. Johnson, Soc. Stud., Univ. of Houston; Houston, Tex. (10953)

2524. Development of a Repetitive Psychodiagnostic Measure.

Louis J. Moran, Ph. D., Research Psychol.; Roy B. Mefferd, Jr., Ph. D., Dir. Psychiat. & Psychosomatic Research Lab.; James P. Kimble, Jr., M.A., Stat. and Experiment. Design Analyst; Alex D. Pokorny, M.D., Ch. Psychiat.-Neur. Serv.; Isham Kimbell, Jr., M.D., Ch. Closed Wards Sect.; Houston, Tex. (10954)

2525. Relation of Autonomic Liability to Responses to Severe Stress.

Roy B. Mefferd, Jr., Ph. D., Dir. Psychiat. & Psychosomatic Research Lab.; Louis J. Moran, Ph. D., Research Psychol.; James P. Kimble, Jr., M.A., Stat. and Experiment.-Design Analyst; Ruby M. Summers, B.A., Biochem.; Marcia M. Benson, B.S., Stat. Clerk; Houston, Tex. (10955)

2526. Prediction of Psychosomatic Illness from a Body Image Schema.

Sidney E. Cleveland, Ph. D., Asst. Ch. Psychol. Serv., VAH; Seymour Fisher, Ph. D., Asst. Prof. of Psychol., Baylor Univ.; Houston, Tex. (10956)

2527. Continuation of an Investigation of a Schizophrenic Patient's Associate Processes During Various Therapeutic Regimen.

W. W. Good, M.D., Psychiat.; Ruth M. Hubbard, Ph. D., Ch. Psychol. Serv., VAH, Waco; Roy B. Mefferd, Jr., Ph. D., Dir. Psychiat. and Psychosomatic Research Lab.; James P. Kimble, Jr., Stat. and Experiment. Design Analyst, VAH, Houston; Ruby M. Summers, B.A., Biochem., VAH, Waco; Marcia M. Benson, B.S., Stat. Clerk, VAH; Houston, Tex. (10957)

2528. Development of the Statistical Model and Experimental Design for Employment of Functional Systems Analysis in Medical Research.

Roy B. Mefferd, Jr., Ph. D., Dir. Psychiat. and Psychosomat. Research Lab.; Louis J. Moran, Ph. D., Research Psychol.; James P. Kimble, Jr., M.A., Stat. and Experiment. Design Analyst,; Ruby M. Summers, B.A., Biochem.; Marcia M. Benson, B.S., Stat. Clerk; Houston, Tex. (10958)

2529. Relationship Between Development of Experiences and Effectiveness of Intellectual Defenses.

Francis M. Ledyard, M.A., Counsel. Psychol.; Houston, Tex. (10962)

2530. After-care Services for the Mentally Ill.

Lee T. Muth, SWS; Huntington, W. VA. (8973)

2531. Effect of Tranquilizing Drugs on Autonomic Responses and Verbal Conditioning.

Robert A. Wagoner, Ph. D., Asst. Ch. Clin. Psychol.; Ruth B. Hines, Ph. D., Ch. Clin. Psychol.; Indianapolis, Ind. (4784)

2532. Investigation of the Relationship between Anxiety Level and Flicker-Fusion Measures.

Robert A. Wagoner, Ph. D., Asst. Ch. Clin. Psychol.; Indianapolis, Ind. (4785)

2533. Behavioral Effects of Central Nervous System Drugs Using an Intermittently Reinforced Operant Response in Normal and Psychotic Patients.

Charles B. Ferster, Prin. Invest., Inst. Psychiat. Research; Theodore Tausig, M.D., Ch. Neuropsychiat. Serv., VAH; John I. Nurnberger, M.D., Prof. of Psychiat., Indiana; Indianapolis, Ind. (9135)

2534. Autonomic Conditioning in Hysterical Amblyopia.

Robert A. Wagoner, Ph. D., Clin. Psychol.; T. F. Schlaegel, M.D., Phys.; Indianapolis, Ind. (10889)

2535. An Investigation of the Validity of the Rorschach Technique in Predicting Sociability.

Herbert Lange, M.A., Psychol. Tr.; Indianapolis, Ind. (10890)

2536. Demographic Characteristics of Re-admitted and Non-Readmitted Neuropsychiatric Patients.

Robert A. Wagoner, Ph. D., Clin. Psychol.; Joseph A. Harte, Jr., M.A., Psychol. Tr.; Indianapolis, Ind. (10891)

2537. Depressives and Controls Response to Success or Failure.

Sanford Rosenzweig, M.A., Psychol. Tr.; Indianapolis, Ind. (10892)

2538. The Relationship Between Process and Reactive Schizophrenia.

Robert A. Wagoner, Ph. D., Clin. Psychol., VAH; Ralph Reitan, Ph. D., Assoc. Prof. Med. Psychol., Indiana; Phillip White, M.D., Assoc. Prof. Neur., Indiana; Indianapolis, Ind. (10893)

2539. Capacity To Shift Attention in Brain-damaged, Schizophrenic and Control Patients.

Arthur L. Benton, Ph. D., Cons. Psychol.; James A. Kennedy, M.D., Act. Ch. Neuropsychiat. Serv.; Maurice W. Van Allen, M.D., Ch. Neur. Sect.; Iowa City, Iowa. (4884)

2540. A Study of the Acquisition and Extinction of a Verbal Conditioned Response.

Edwin Cohen, Ph. D., Ch. Psychol.; Barbara P. Behrens, Clin. Psychol. Tr.; Iowa City, Iowa. (4889)

2541. Verbal Conditioning as a Function of Reward and Punishment in Prison and Non-Prison Subjects.

Edwin Cohen, Ph. D., Ch. Clin. Psychol.; John J. Blaylock, M.A., Psychol. Tr.; Iowa City, Ia. (9585)

2542. Changes in Reinforced Verbal Behavior as a Function of Experimenter Prestige and Intelligence of Subject.

Edwin Cohen, Ph. D., Ch. Clin. Psychol.; Kenneth P. McCullough, Jr., M.A., Psychol. Tr.; Iowa City, Ia. (9586)

2543. Visual Discrimination of Forms in Older Patients as Influenced by Visual Noise.

Livingston Magill Echols, Psychol. Intern; Fred Y. Billinslea, Ph. D., Ch. Psychol.; Jackson, Miss. (10912)

2544. The Galvanic Skin Conditioned Response in Schizophrenic Patients.

Henry N. Peters, Ph. D., Ch. NP Research; Jefferson Barracks, Mo. (4935)

2545. The Differential Effect of Schizophrenia on Two Kinds of Intelligence.

Henry N. Peters, Ph. D., Ch. NP Research; Jefferson Barracks, Mo. (4937)

2546. The Pencil Maze Test and Word Meaning Test as Predictors of Hospital Adjustment.

Henry N. Peters, Ph. D., Ch. NP Research; Jefferson Barracks, Mo. (4939)

2547. Factor Analysis of the Psychiatric Mental Examination.

Ernest A. Kurtz, Ph. D., Hosp. Coord., Psych. Eval. Project; Jefferson Barracks, Mo. (4942)

2548. Pain Appreception in Psychotics.

Donald V. Petrovich, Ph. D., Clin. Psychol., Cont. Treatment Serv.; Jefferson Barracks, Mo. (4944)

2549. An Investigation of the Effects of Imipramine HCL (Tofrānil) on Depression.

George B. Neukom, M.D., Act. Ch. Cont. Treatment Serv.; Henry N. Peters, Ph. D., Ch. NP Research; Jefferson Barracks, Mo. (10924)

2550. The Effects of Trifluoperazine (Stelazine) with Hospitalized Chronic Schizophrenic Patients.

Joseph D. Woddail, M.D., Ward Phys., Cont. Treatment Serv.; Jefferson Barracks, Mo. (10925)

2551. A Study of Organic Factors in Mental Illness as Revealed in the Social Histories of Mental Patients.

Michael H. Dalton, M.S.W., Foster Home Super., Soc. Work Serv.; Jefferson Barracks, Mo. (10926)

2552. Intentional *vs.* Extensional Orientation in Psychiatric Patients.

Henry N. Peters, Ph. D., Ch. NP Research; Jefferson Barracks, Mo. (10927)

2553. The Relationship Between Communication-Involvement and Hospital Release in Psychiatric Patients.

William T. Bowen, M.S.W., Research Soc. Worker, Psychiat. Eval. Proj.; Jefferson Barracks, Mo. (10928)

2554. An Experimental Investigation of the Validity of an Ego-Strength Scale.

Perry J. Rushlau, Jr., Ph. D., Ch. Counsel. Psychol.; David P. Grace, M.A., Counsel. Psychol. Tr.; Jefferson Barracks, Mo. (10929)

2555. The Relationship of Discrepant Academic Achievement to Later Personal Adjustment.

Perry J. Rushlau, Jr., Ph. D., Ch. Counsel. Psychol.; Joseph T. Kunce, M.A., Counsel. Psychol. Tr.; Jefferson Barracks, Mo. (10930)

2556. Span of Apprehension in Schizophrenic Patients and in Patients Suffering from Brain Damage.

Henry N. Peters, Ph. D., Ch. NP Research; David Grober, Experiment. Psychol. Tr.; Jefferson Barracks, Mo. (10931)

2557. A Study of the Effects of Psychotherapy on Acute Psychotic Patients Who are Receiving Chlorpromazine.

Henry N. Peters, Ph. D., Ch. NP Research; Jefferson Barracks, Mo. (10932)

2558. An Evaluation of the Relative and Absolute Effects of Guided Problem Solving and Psychodrama in Treatment of Chronic Schizophrenic Patients.

Henry N. Peters, Ph. D., Ch. NP Research; Jefferson Barracks, Mo. (10933)

2559. Memory Processes: Study of Recent Memory; Reproduction of Meaningful Material.

John H. McCormack, Ph. D., Ch. Clin. Psychol. Sect.; Kansas City, Mo. (4971)

2560. Tests of Psychomotor Functioning: Card-sorting: Purdue Pegboard and Minnesota Special Relationships.

John H. McCormack, Ph. D., Ch. Clin. Psychol. Sec.; Kansas City, Mo. (4972)

2561. Group Testing Procedures with Patients, Aides and Volunteers as Psychometricians.

John H. McCormack, Ph. D., Ch. Clin. Psychol. Sec.; Kansas City, Mo. (4973)

2562. Study of the Efficacy of Tranquilizing Drugs in Treatment of Psychiatric Disorders.

W. E. Olson, M.D., Ch. Psychiat. Serv.; John H. McCormack, Ph. D., Ch. Clin. Psychol. Sec.; Solomon D. Kaplan, Ph. D., Research Psychol., Research Lab.; Kansas City, Mo. (4974)

2563. Demonstration Projects: Recreational Counseling: Community Work-Therapy and Post-Discharge Social Group.

John H. McCormack, Ph. D., Ch. Clin. Psychol. Sec.; Kansas City, Mo. (4975)

2564. The Concentration of Amino Acids in Serum, Spinal Fluid and Urine from Normal Humans and Schizophrenic Patients with Emphasis on Tryptophane.

Harold N. King, M.D., Ch. Psychiat. and Neur. Serv.; Anthony F. Beau, Biochem.; Kecoughtan, Va. (4995)

2565. Preferences of Psychological Report Writers and Readers for Various Aspects of Clinical Reports.

Norman Tallent, Ph. D., Ch. Psychol. Serv.; William J. Reiss, Ph. D., Clin. Psychol.; Kecoughtan, Va. (4996)

2566. The Effects of Environmental Change on Certain Aspects of the Behavior of Chronic Neuropsychiatric Patients.

Neil W. Coppinger, Ph. D., Ch. Research Unit on Aging; William J. Reiss, Ph. D., Clin. Psychol.; Rayford T. Saucer, Ph. D., Research Psychol., Research Unit on Aging; Norman Tallent, Ph. D., Ch. Psychol. Serv.; Kecoughtan, Va. (4998)

2567. A Systematic Study of the Psychophysiology of Aging.

Neil W. Coppinger, Ph. D., Ch. Research Unit on Aging; Rayford T. Saucer, Ph. D., Research Psychol., Research Unit on Aging; Kecoughtan, Va. (4999)

2568. Ratio and Intensity as Individual Differences in the Shortest Noticeable Dark Time.

Neil W. Coppinger, Ph. D., Ch. Research Unit on Aging; Rayford T. Saucer, Ph. D., Research Psychol., Research Unit on Aging; Kecoughtan, Va. (5000)

2569. Chlorpromazine and Apparent Movement Perception with Cardio-Vascular Disturbances.

Neil W. Coppinger, Ph. D., Ch. Research Unit on Aging; Rayford T. Saucer, Ph. D., Research Psychol., Research Unit on Aging; Kecoughtan, Va. (5001)

2570. The Relationship Between LDR at Fusion and Organic Damage.

N. W. Coppinger, Ph. D., Ch. Research Unit on Aging; R. T. Saucer, Ph. D., Research Psychol.; Kecoughtan, Va. (5002)

2571. New Techniques of Apparent Movement.

Rayford T. Saucer, Ph. D., Research Psychol., Research Unit on Aging; Kecoughtan, Va. (5003)

2572. A Factorial Study of Institutional Activities.

Neil W. Coppinger, Ph. D., Ch. Research Unit on Aging; Rayford T. Saucer, Ph. D., Research Psychol., Research Unit on Aging; Kecoughtan, Va. (5004)

2573. A Study of Factors Influencing Furlough Use by Domiciliary Members.

Claudia M. Dixon, SWS Tr.; Kecoughtan, Va. (10971)

2574. A Study of Contributing Factors in Hospital Readmissions.

Alma M. Diggs, SWS Tr.; Kecoughtan, Va. (10972)

2575. Intraclass Correlation as a Form of Multiple Group Factor Analysis.

Rayford T. Saucer, Ph. D., Research Psychol.; Kecoughtan, Va. (10977)

2576. Temporal Facilitation of Apparent Motion.

Rayford T. Saucer, Ph. D., Research Psychol., Research Unit on Aging; Kecoughtan, Va. (10978)

2577. Self-Perceived Needs and Stereotypes Among Residents in a Sheltered Environment (VA Domiciliary).

Neil W. Coppinger, Ph. D., Ch. Research Unit on Aging; Rayford T. Saucer, Ph. D., Research Psychol., Research Unit on Aging; Rayman W. Bortner, Ph. D., Research Psychol., Research Unit on Aging; Kecoughtan, Va. (10979)

2578. A Factor Analysis of the Caldwell Picture Series.

Rayford T. Saucer, Ph. D., Research Psychol., Research Unit on Aging; Neil W. Coppinger, Ph. D., Ch. Research Unit on Aging; Kecoughtan, Va. (10980)

2579. Multiple Group Factor Analysis by Averaged Direction Cosines (ADC).

Rayford T. Saucer, Ph. D., Research Psychol.; Neil W. Coppinger, Ph. D., Ch. Research Unit on Aging; Kecoughtan, Va. (10981)

2580. Some Determinants of Perception.

Rayfort T. Saucer, Ph. D., Research Psychol., Research Unit on Aging; Rayman W. Bortner, Ph. D., Research Psychol., Research Unit on Aging; Neil W. Coppinger, Ph. D., Ch. Research Unit on Aging; Kecoughtan, Va. (10983)

2581. The Domiciliary as a Near Total Institution.

Rayman W. Bortner, Ph. D., Research Psychol., Research Unit on Aging; Neil W. Coppinger, Ph. D., Ch. Research Unit on Aging; Rayford T. Saucer, Ph. D., Research Psychol., Research Unit on Aging; Kecoughtan, Va. (10984)

2582. Psychological Aspects of Nursing.

Norman Tallent, Ph. D., Ch. Psychol. Sect.; William J. Reiss, Ph. D., Clin. Psychol.; Sally I. Weaks, R.N., Ch. Nursing Serv.; Kecoughtan, Va. (10985)

2583. A Further Investigation of Socialization in the Institutionalized Aged.

Norman Tallent, Ph. D., Ch. Psychol. Sect.; William J. Reiss, Ph. D., Clin. Psychol.; Kecoughtan, Va. (10986)

2584. An Instrumental Music Project for Geriatric Patients.

Alice Nelson, Recreation Leader, Knoxville, Iowa. (4473)

2585. Empirical Syndrome Groupings of Schizophrenic Hospital Admissions.

Wilson H. Guertin, Ph. D., Super. Research Unit, Psychol. Serv.; Knoxville, Iowa. (4474)

2586. Relationships Among Self-Ratings Classified in Terms of Social Desirability and Several Indices of Defensiveness.

H. J. Wahler, Ph. D., Research Clin. Psychol.; Knoxville, Iowa. (5024)

2587. DWK Activities Behavior Ratings.

H. J. Wahler, Ph. D., Research Clin. Psychol.; Jack J. Dack, B.A., Ch. Occup. Therapy; Knoxville, Iowa. (5027)

2588. Concomitant Study to an Ataractic Drug Investigation.

Paul F. Mandeville, Ph. D., Clin. Psychol.; Knoxville, Iowa. (5032)

2589. Effects of Success and Failure Instruction on the Reaction Time of Schizophrenics.

Harold L. Blackburn, Ph. D., Clin. Psychol; Wilson H. Guertin, Ph. D., Super., Research Unit, Psychol. Serv., VAH, Knoxville, Iowa; Leonard A. Goodstein, Ph. D., Assoc. Prof., Dept. of Psychol., State Univ. of Iowa; Iowa City, Iowa. (8555)

2590. Self-Rating Item Correlations With Levels of Conditioning.
Wilson H. Guertin, Ph. D., Super. Research Unit, Psychol. Serv.; Knoxville, Iowa. (8556)

2591. A Factor Analytic Evaluation of the Concept of Dependency.
W. H. Guertin, Ph. D., Super. Research Unit, Psychol. Serv.; Knoxville, Iowa. (8557)

2592. Tension and Worry as Two-Factor Anxiety.
Wilson H. Guertin, Ph. D., Super. Research Unit, Psychol. Serv.; Knoxville, Iowa. (8558)

2593. Attitudes on Family Life and Children of the Mothers of Schizophenic Patients.
Wilson H. Guertin, Ph. D., Super. Research Unit, Psychol. Serv.; Knoxville, Iowa. (8559)

2594. Auditory Interference With Digit Span Performance.
Wilson H. Guertin, Ph. D., Super. Research Unit, Psychol. Serv.; Harold A. Ries, Clin. Psychol. Tr.; Knoxville, Iowa. (8560)

2595. The Wife-Ideal Fundamental Elements.
Wilson H. Guertin, Ph. D., Super. Research Unit, Psychol. Serv.; Knoxville, Iowa. (8561)

2596. A Factor Analysis of Gross Errors on Sentence Completions.
Wilson H. Guertin, Ph. D., Super. Research Unit, Psychol. Serv.; Knoxville, Iowa. (8562)

2597. The Knoxville Appraisal of Personality Patterns.
Wilson H. Guertin, Ph. D., Super. Research Unit, Psychol. Serv.; Art A. Kramish, Ph. D., Ch. Psychol. Serv.; Knoxville, Iowa. (8563)

2598. A Test for Paralogical Thinking.
Ralph A. Nelson, Ph. D., Super. Clin. Psychol.; Knoxville, Iowa. (8888)

2599. Behavioral Changes Associated With Administration of a Psychic Energizer.
Walter O. Regnier, M.D., Act. Dir. Prof. Serv.; Wilson H. Guertin, Ph. D., Super. Research Unit, Psychol. Serv.; Knoxville, Iowa. (9062)

2600. Scale Analysis of Anxiety in Psychiatric Patients and Students.
Wilson H. Guertin, Ph. D., Super. Research Unit, Psychol. Serv., VAH, Knoxville, Iowa; Leonard D. Goodstein, Ph. D., Dept. of Psychol., State Univ. of Iowa; Iowa City, Iowa. (9063)

2601. Development of a Geriatric Attitude Scale.
Wilson H. Guertin, Ph. D., Super. Research Unit, Psychol. Serv., VAH, Knoxville, Iowa; Arnold D Krugman, Ph. D., Ch. Clin. Psychol., VAC; Martinsburg, W. Va. (9064)

2602. The Misperception of Time in Schizophrenia.
Wilson H. Guertin, Ph. D., Super. Research Unit, Psychol. Serv., VAH, Knoxville, Iowa; Albert I. Rabin, Ph. D., Prof. Dept. of Psychol., Michigan State Univ.; East Lansing, Mich. (9141)

2603. Differences Between Schizophrenic and Non-schizophrenic "Groups."

John E. Davis, Jr., Ph. D., Ch. Clin. Psychol.; Joseph Lyons, Ph. D., Research Psychol.; Lexington, Ky. (5036)

2604. Action and Motion.

Erwin W. Straus, M.D., Asst. Dir. for Prof. Serv. for Research and Educ.; Joseph Lyons, Ph. D., Research Psychol.; Lexington, Ky. (5037)

2605. The Development of a Test for the Detection of Scientific Talent.

Erwin W. Straus, M.D., Asst. Dir. Prof. Serv. for Research and Educ.; Joseph Lyons, Ph. D., Research Psychol.; Lexington, Ky. (5038)

2606. The Number of Typical Dreams Reported by NP Patients.

Richard M. Griffith, Ph. D., Ch. Research Psychol.; Lexington, Ky. (5039)

2607. Rorschach Content and Ink-blot Structure.

William E. Edmonston, Jr., M.A., Clin. Psychol. Tr.; Richard M. Griffith, Ph. D., Ch. Research Psychol.; Lexington, Ky. (5040)

2608. The Catatonic Body Schema.

Erwin W. Straus, Asst. Dir. for Prof. Serv. for Research and Educ.; Joseph Lyons, Ph. D., Research Psychol.; Lexington, Ky. (5045)

2609. Evaluation of a Total Ward Therapy Program.

Raymond A. Wilkie, Ph. D., Ward Psychol.; Joseph L. Wilson, M.D., Ch. Cont. Treatment Serv.; Lexington, Ky. (5047)

2610. Rotations in Figure Drawings of Organics and Schizophrenics.

Richard M. Griffith, Ph. D., Ch. Research Psychol.; Lexington, Ky. (5050)

2611. An Investigation of Perceptual Sensitivity and Psychophysiological Characteristics of Attention.

Sidney A. Wohl, M.A., Clin. Psychol. Tr.; Charles H. Sparks, EEG Tech.; Lexington, Ky. (9042)

2612. Some Factors in Subliminal Visual Perception.

J. Lynn Lubker, Ph. D., Staff Psychol.; Roanoke, Va. (5056)

2613. A Life-History on Film.

Joseph Lyons, Ph. D., Research Psychol.; Lexington, Ky. (5059)

2614. Vertical-Horizontal Effect Related to the Phi Phenomenon.

Richard M. Griffith, Ph. D., Ch. Research Psychol., VAH; Richard L. Blanton, Ph. D., Assoc. Prof. Psychol., Univ. of Kentucky; Lexington, Ky. (8569)

2615. Effect of Audio-Stimulation on Epileptics and Non-Epileptics.

Charles I. Schwartz, M.D., Ch., Acute Intensive Treatment Serv.; Charles H. Sparks, EEG Tech.; Lexington, Ky. (8898)

2616. The Effect of a Signal on Intelligibility of Words Masked by Noise.

Joseph Lyons, Ph. D., Research Psychol., VAH; Francis Kodman, Jr., Asst. Prof. Psychol., Univ. of Kentucky; Lexington, Ky. (8899)

2617. Levels of Personality and Clinical Prediction.

Arthur Fein, Clin. Psychol. Tr.; Lexington, Ky. (9037)

2618. A Study of Connotative Meaning in Group Psychotherapy.

Leonard Lipton, Ph. D., Ward Psychol.; Jerome Klein, M.S., Clin. Psychol. Tr.; Lexington, Ky. (9038)

2619. An Investigation of Perceptual Sensitivity and Psychophysiological Characteristics of Attention.

Sidney A. Wohl, M.A., Clin. Psychol. Tr.; Charles H. Sparks, EEG Tech.; Lexington, Ky. (9042)

2620. The Validity of the Z-Test.

William E. Edmonston, Jr., Clin. Psychol. Tr.; Lexington, Ky. (9142)

2621. Examiner Influence on Rorschach Performance.

Richard M. Griffith, Ph. D., Ch. Research Psychol.; Lexington, Ky. (9145)

2622. Effect of Changing Bodily Tonus on Expressive Movements.

James R. Hayhurst, PM&R Therapist; Richard M. Griffirh, Ph. D., Ch. Research Psychol.; Lexington, Ky. (9147)

2623. Reading Interests of Elderly NP Patients.

Richard M. Griffith, Ph. D., Ch. Research Psychol.; Mildred Kearns, M.L. Sc., Med. Librarian; Thomas Greenland, M.A., Clin. Psychol. Tr; Lexington, Ky. (9148)

2624. A Study of Situations Which Reveal Psychotic Material.

Stanley P. Zarlock, Ph. D., Ward Psychol.; Lexington, Ky. (9149)

2625. Probability and Value Evaluations by Hospitalized Patients.

Richard Griffith, Ph. D., Ch. Research Psychol.; Robert Munson, M.A., Clin. Psychol. Tr.; Lexington, Ky. (9150)

2626. The Playboy's Hangover at Middle Life.

Daniel C. Wunderman, M. D., Staff Phys., Psychiat.; W. Arthur Theobald, M.S.S.W., Ch. SWS; Erwin W. Straus, M.D., Asst. Dir. Prof. Serv. for Research and Educ.; Lexington, Ky. (9152)

2627. Relevant Cues for Phenomenal Size of Objects of Different Shapes.

Betsy W. Estes, Ph. D., Cons. Psychol.; Stanley Goldman, M.A., Clin. Psychol. Tr.; Lexington, Ky. (9153)

2628. Capacity To Judge the Genuineness of Personal Documents: Suicide Notes.

Dolores M. Little, B.A., Psychol. Tr.; Richard M. Griffith, Ph. D., Ch. Research Psychol.; Lexington, Ky. (9154)

2629. Ward Social Structure and Cohesiveness as Determined by Two Different Types of Questionnaires.

Albert L. Lott, Ph. D., Cons. Psychol.; William T. Query, Jr., M.A., Clin. Psychol. Tr.; Jerome R. Klein, M.S., Clin. Psychol. Tr.; Lexington, Ky. (9155)

2630. The "Genuineness" of Hypnotic Age Regression.

William E. Edmonston, Jr., M.A., Clin. Psychol. Tr.; Lexington, Ky. (9158)

2631. The Tendency Toward Fixated Behavior in Rats After Apparent Recovery From Neurotropic Viruses.

Carl. E. Duffy, Ph. D., Prof. and Head, Dept. of Microbiol., Univ. of Arkansas Med. Center; Oddist D. Murphree, Ph. D., Prin. Scien., NP Research, VAH; Little Rock (No. Little Rock Div.), Ark. (6618)

2632. Learning Facility in the Rat After Apparent Recovery From Neurotropic Viruses.

Carl E. Duffy, Ph. D., Prof. and Head, Dept. of Microbiol., Univ. Arkansas Med. Center; Oddist D. Murphree, Ph. D., Prin. Scien., NP Research, VAH; Little Rock (No. Little Rock Div.), Ark. (6619)

2633. Psychiatric Response of Geriatric-Psychiatric Patients to Mellaril (TP–21, Sandoz).

Leopold N. Judah, M.D., Staff Psychiat., VAH; Lloyd D. Seager, M.D., Prof. and Head, Dept. Phys. and Pharm., Univ. of Ark. Med. Center; Oddist D. Murphree, Ph. D., Prin. Scien., NP Research, VAH; Little Rock (No. Little Rock Div.), Ark. (6621)

2634. Factors Responsible for Second Admissions.

Helen K. Hill, SWS; Little Rock (No. Little Rock Div.), Ark. (6629)

2635. Evaluation of Ward-Wide Discussion Groups, Maximum Security Ward Continued Treatment Service.

Robert C. Cannon, Ph. D., Clin. Psychol.; Leopold N. Judah, M.D., Psychiat.; Virginia M. Gatlin, R.N., Nursing Serv.; Fredrick Schnadt, Ph. D., Ch. Clin. Psychol.; Johnnie Daniel, Nursing Asst. Psychiat.; Little Rock (No. Little Rock Div.), Ark. (6637)

2636. Correlation Between Psychological and Biochemical Tests, the Funkenstein Test, and Response to Treatment in Mental Illness.

George A. Reynolds, M.D., Resident Psychiat.; Lowell K. Williams, M.D., Resident Psychiat.; Robert C. Cannon, Ph. D., Clin. Psychol.; William M. Prado, Ph. D., Staff Psychol.; Little Rock (No. Little Rock Div.), Ark. (10170)

2637. Psychiatric Response of Geriatric-Psychiatric Patients to Compound 5022 (Mead Johnson).

Leopold N. Judah, M.D., Staff Psychiat.; Lloyd D. Seager, M.D., Cons., VAH, Prof. & Head, Dept. Phys. and Pharm., Univ. of Arkansas Med. Center; Little Rock (No. Little Rock Div.), Ark. (10171)

2638. Stelazine (Trifluoperazine, Smith, Kline, and French).

Charles C. Ault, M.D., Ch. Cont. Treatment Serv.; Little Rock (No. Little Rock Div.), Ark. (10172)

2639. Evaluation of Training Program for Psychiatric Nursing Assistants.

Ellie Murphy, R.N., Asst. Ch. Nursing Educ.; Beth Hollingsworth, R.N., Nursing Educ.; Clyde Priest, Med. Illus.; Leopold N. Judah, M.D., Staff Psychiat.; Robert C. Cannon, Ph. D., Clin. Psychol.; Little Rock (No. Little Rock Div.), Ark. (10173)

2640. Repetitive Counter-Delusional Stimuli with Schizophrenics in Sensory Isolation.

Oddist D. Murphree, Ph. D., Prin. Scien. NP Research, VAH; William G. Reese, M.D., Prof. and Head, Dept. Psychiat., Univ. of Arkansas Med. Center; Roscoe Dykman, Ph. D., Dept. of Psychiat., Univ. of Arkansas Med. Center; Leopold N. Judah, M.D., Staff Psychiat., VAH; Little Rock (No. Little Rock Div.), Ark. (10174)

2641. A Comparison of Intellectual Functioning Between the Shipley-Hartford and Wechsler-Bellevue Tests.

William M. Prado, Ph. D., Staff Psychol.; Little Rock (No. Little Rock Div.), Ark. (10175)

2642. Study of Normal and Schizophrenics Serum and Urines Using "Press Bar Rats" as a Test System.

Myron Feld, M.D., Ch. Psychiat. & Neuro., VAH; Keith F. Killam, Ph. D., Research Anat., Univ. of California at Los Angeles Med. Sch.; J. R. Goodman, Ph, D., Biochem., VAH; Long Beach, Calif. (5231)

2643. An Experimental Study of Psychosomatic Mechanisms.

Robert W. Porter, M.D., Ch. Neurosurg. Sect.; J. D. French, M.D., Asst. Dir. Prof. Serv. for Research; Long Beach, Calif. (5232)

2644. Profile of Psychiatric Admissions.

S. D. Brody, M.A., SWS; Long Beach, Calif. (5259)

2645. A Profile of 100 Veterans Admitted for Psychiatric Care at Long Beach Veterans Administration Hospital, May 1, 1955, to April 30, 1956.

Dan Brody, M.A., SWS; Long Beach, Calif. (5260)

2646. An Attempt to Specify Cues Clinicians Use in Evaluating Test Profiles.

Seymour Levitan, M.A., Clin. Psychol. Tr.; Jack H. Goldfarb, M.A., Clin. Psychol. Tr., VAH; Alfred Jacobs, Ph. D., Univ. of Southern California; Long Beach, Calif. (5262)

2647. Affective Reports and Autonomic Functions in Patients with Spinal Cord Injury.

Ernest H. Bors, M.D., Ch. Spinal Cord Injury Serv.; George Hohman, Ph. D., Clin. Psychol.; John McKelligott, Ph. D., Clin. Psychol.; Long Beach, Calif. (5265)

2648. A Preliminary Evaluation of Methopromazine.

Sidney Cohen, M.D., Asst. Ch. Med. Serv.; Los Angeles, Calif. (5701)

2649. Physical Reactivity in Chronic Paranoid Schizophrenia.

H. Strassman, M.D., Clin. Asst., VAC; N. Brill, M.D., Cons. Psychiat., VAC, Prof. Psychiat., Univ. of California at Los Angeles Med. Center; H. Storrow, Ph. D., Asst. Prof. Psychiat., Univ. of California at Los Angeles Med. Center; Los Angeles, Calif. (5802)

2650. Study of Autonomic Response Patterns in Psychosomatic Disorders.

M. A. Wenger, Ph. D., Prof. Psychol., Univ. of California at Los Angeles Med. Center; E. Kollar, M.D., Sec. Ch. Psychosomatic Med., VAC; S. M. Mellinkoff, M.D., Attend. Spec. Med., VAC, Assoc. Prof. Med., Univ. of California at Los Angeles Med. Center; T. Clemens, Ph. D., Research Psychol., Univ. of California at Los Angeles Med. Center; N. Rose, Ch. Psychol. Serv., VAC; J. Way, Ph. D., Staff Psychol., VAC; G. Sommer, M.A., Research Asst., Univ. of California at Los Angeles Med. Center; K. Watanabe, A.B., Research Asst., Univ. of California at Los Angeles Med. Center; Los Angeles, Calif. (5815)

2651. Studies on Brain Self-stimulation.

Samuel Eiduson, Ph. D., Ch. Research Biochem.; Edward Geller, Ph. D., Research Biochem.; Shawn Schapiro, Ph. D., Research Neurophys.; Los Angeles, Calif. (5816)

2652. 5-Hydroxytryptophan Decarboxylase Studies.

Arthur Yuwiler, Ph. D., Research Biochem., Mental Health Prog. Tr., Depart. Anat., UCLA-Medical Center; Edward Geller, Ph. D., Research Biochem., VAC; Samuel Eiduson, Ph. D., Ch. Research Biochem., VAC; Los Angeles, Calif. (5817)

2653. Phenothiazine Excretion Studies of Neuropsychiatric Patients.

Samuel Eiduson, Ph. D., Ch. Research Biochem.; Los Angeles, Calif. (5822)

2654. A Multidisciplinary Study of the Interrelationship of Certain Psychological, Biochemical and Physiological Parameters.

Norman Q. Brill, M.D., Cons. Psychiat., VAC, Prof. Psychiat., Univ. of California at Los Angeles Med. Center; Samuel Eiduson, Ph. D., Ch. Research Biochem, VAC; Evelyn Crumpton, Ph. D., Clin. Psychol.; Los Angeles, Calif. (5823)

2655. Neurohumoral Events as Correlated With Electrical Recordings.

A. Scheibel, M.D., Cons. Psychiat., VAC, Asst. Clin. Prof. Neuroanat. and Psychiat., Univ. of California at Los Angeles Med. Center; M. Scheibel, M.D., Research Assoc., Univ. of California at Los Angeles Med. Center; S. Eiduson, Ph. D., Ch. Research Biochem., VAC; Los Angeles, Calif. (5824)

2656. Validation of a Method for Rapid Clinical Appraisal in Pharmacological Research.

Harry A. Grayson, Ph. D., Asst. Dir. Psychol. Research; Sidney Cohen, M.D., Asst. Ch. Med. Serv.; Louis D. Mollo, M.D., Sr. Phys.; Los Angeles, Calif. (5825)

2657. A Follow-Up Study of the Characteristics of Adjustment of Men Who Have Been Through Portal House.

Bill E. Allen, A.B., SW Tr.; Newton D. Greenstate, A.B., SW Tr.; Robert D. Moorehead, A.B., SW Tr.; Helen M. Osako, A.B., SW Tr.; Richard M. Thor, A.B., SW Tr.; Frank C. Woodson, A.B., SW Tr.; Dorthea M. Lane, M.A., Asst. Ch. SWS; Ruth Landes, Ph. D., Visit. Asst. Prof., Sch. Soc. Work, Univ. of Southern California; Los Angeles, Calif. (5826)

2658. An Experiment in the Use of Social Group Work for Regressed Patients Placed in Family Care Homes.

Dorthea M. Lane, M.A., Asst. Ch. SWS; Morton L. Robbin, M.S.W., Casework Super., SWS, VAC; Helen Northern, Ph. D., Visiting Prof., Sch. of Soc. Work, Univ. of Southern California; Los Angeles, Calif. (5827)

2659. Study of Continued Service Cases in Social Work Service, Neuropsychiatric Hospital Veterans Administration Center.

Esther R. Trynin, A.B., SW Tr.; Cecile Stillwater, A.B., SW Tr., VAC; Mary B. Novick, M.S., Visit. Lect. Sch. Soc. Welf., Univ. of California at Los Angeles; Dorthea M. Lane, M.A., Asst. Ch. SWS; Los Angeles, Calif. (5828)

2660. A Preliminary Evaluation of Stelazine.

Sidney Cohen, M.D., Asst. Ch. Med. Serv.; Los Angeles, Calif. (5829)

2661. Construction and Validation of a Comprehensive Rating Scale for Evaluating Physical Therapy Student Performance in Clinical Practice.

Nancy B. Ward, B.S., Ch. Phys. Therapy; Arnold J. Isaacs, B.S., Phys. Therapist, VAC; Charlotte Anderson, M.A., Dir. Sch. of Phys. Therapy, Univ. of Southern California; Hazel Adkins, M.A., Educ. Dir., Rancho Los Amigos; Harry M. Grayson, Ph. D., Asst. Dir. Psychol. Research, VAC; Los Angeles, Calif. (5831)

2662. An Investigation of Specific Biochemical Sites of Action of Tranquilizing and Hallucinogenic Drugs by Means of Microbiological Techniques.

S. Eiduson, Ph. D., Ch. Research Biochem.; Edward Geller, Ph. D., Research Biochem.; Los Angeles, Calif. (5832)

2663. An Investigation of Suicide.

Edwin S. Shneidman, Ph. D., Co-prin. Invest., Central Research Unit; Norman L. Farberow, Ph. D., Co-prin. Invest., Central Research Unit; Los Angeles, Calif. (5833)

2664. Experimental Use of Five Phenothiazines (SC–7105, KS–75, TP–21, BA–17040 and WIN–13645–5).

Sidney Cohen, M.D., Asst. Ch. Med. Serv.; Los Angeles, Calif. (5834)

2665. Standardization of a Revised Form of the Perceptualization Test for Brain Damage.

Harry M. Grayson, Ph. D., Asst. Dir. Psychol. Research; Los Angeles, Calif. (5835)

2666. Center Research Unit for the Study of Unpredicted Death.

Edwin S. Shneidman, Ph. D., Co-prin. Invest., Central Research Unit; Norman L. Farberow, Ph. D., Co-prin. Invest., Central Research Unit; Calista Leonard, M.A., Operations Research Asst.; Los Angeles, Calif. (5844)

2667. Discriminanat Analysis of Patients With Peptic Ulcer.

Martha Agan, B.S., C.R.L., Med. Rec. Lib., VAC; William H. Bachrach, M.D., Attend. Spec., Med., VAC, Assoc. Clin. Prof. Med., Univ. of Southern California Sch. of Med.; James T. Ferguson, M.D., Dir. Prof. Educ., VAC; Edward J. Kollar, M.D., Ch. Psychosomatic Med.; Nicholas Rose, Ph. D., Ch. Clin. Psychol. Serv.; Los Angeles, Calif. (8426)

2668. Validation of a Battery of Selected Tests of Brain Damage.

Norman Q. Brill, M.D., Cons. Psychiat., VAC, Prof. Psychiat., Univ. of California at Los Angeles Med. Center; Marvin Spanner, Ph. D., Instr. Med. Psychol., Univ. of California at Los Angeles Med. Center; Lowell H. Storms, Ph. D., Instr. Med. Psychol., Univ. of California at Los Angeles Med Center; Robert N. Baker, M.D., Sect. Ch. Neur., VAC; Richard D. Walter, M.D., Attend. Spec. Neur., VAC, Asst. Prof. Med., Univ. of California at Los Angeles Med Center; Los Angeles, Calif. (8429)

2669. An Investigation Into the Persistance of a Conditioned Autonomic Response.

Allan E. Edwards, B.A., Research Psych. Tr.; Los Angeles, Calif. (8433)

2670. A Factorial Study of Psychological Dimensions of Aging.

William F. Eicker, M.A., Clin. Psych. Tr.; Los Angeles, Calif. (8434)

2671. A Study of Deaner (2-dimethylaminoethanol) in Chronically Depressed or Apathetic Hospital Patients.

Sidney Cohen, M.D., Asst. Ch. Med. Serv.; Abe Abraham, M.D., Staff Phys.; Harry Adler, M.D., Staff Phys.; U.S. Bowen, M.D., Staff Phys.; John J. Riddle, M.D., Staff Phys.; Los Angeles, Calif. (9169)

2672. Personality and Attitude Changes Associated With Institutional Residence.

Robert G. Hadley, M.S., Counsel. Psychol. Tr.; Los Angeles, Calif. (9171)

2673. Investigation of Dell (N-Pthalyl-Glutamic Acid Imide) A Non-barbiturate Bedtime Sedative.

Sidney Cohen, M.D., Asst. Ch. Med. Serv.; Los Angeles, Calif. (9172)

2674. A Developing Study of the Hypothalamic-Pituitary Adrenal Response to Stress

Shawn Schapiro, Ph. D., Research Neurophy.; Edward Geller, Ph. D., Research Biochem.; Samuel Eiduson, Ph. D., Ch. Research Biochem.; Los Angeles, Calif. (9176)

2675. Biochemical Correlates of the Imprinting Mechanism.

William Beckwith, Ph. D., Jr. Research Psychol., UCLA Med. Cen.; Samuel Eiduson, Ph. D., Ch. Research Biochem., VAC; Edward Geller, Ph. D., Research Biochem.; Shawn Schapiro, Ph. D., Research Neurophy.; Los Angeles, Calif. (9177)

2676. Studies on the Properties of the Copper-Protein: Ceruloplasmin.

Edward Geller, Ph. D., Research Biochem.; Samuel Eiduson, Ph. D., Ch. Research Biochem.; Ronald Koegler, M.D., Assoc. Research Psychiat.; Los Angeles, Calif. (9178)

2677. Biochemistry of the Developing Brain and Behavior.

Edward Geller, Ph. D., Research Biochem.; Samuel Eiduson, Ph. D., Ch. Research Biochem.; Shawn Schapiro, Ph. D., Research Neurophys.; Los Angeles, Calif. (9179)

2678. An Investigation To Determine the Relationship of Levels of Integration of Sensory-Perceptual (Visual and Auditory) and Motor Functioning in Diagnostic Groups.

Mrs. Anne Lebowitz, M.A., Psychol. Tr.; Harry M. Grayson, Ph. D., Asst. Dir. Psychol. Research; Los Angeles, Calif. (9180)

2679. Psychological Studies of Schizophrenic Patients.

Harry M. Grayson, Ph. D., Asst. Dir., Psychol. Research; Donald E. Spiegel, Ph. D., Psychol. Research; Robert M. Gerard, Ph. D., Psychol. Research; Los Angeles, Calif. (9181)

2680. The Use of Nialamid as an Adjunct to the Treatment of the Psychotic Reactions.

Sidney Cohen, M.D., Asst. Ch. Med. Serv.; Manuel Schreiber, Ch. Recept. Serv.; Los Angeles, Calif. (9186)

2681. Problems in the Employment of Ex-Mental Patients.

George F. Seacat, Ph. D., Ch. Psychol. Serv.; Harry M. Grayson, Ph. D., Asst. Dir. Psychol. Research; Theodore H. Salzberg, Ed. D., Coord. of Counsel. Psychol; David B. Wine, Ph. D., Counsel. Psychol. (Vocat); Ellsworth D'Unger, B.S., Indust. Placement Spec; Los Angeles, Calif. (9187)

2682. Studies in Schizophrenia.

Evelyn Crumpton, Ph. D., Clin. Psychol., VAC; Ernest Rosencrantz, A.B., Research Fellow, UCLA-Med. Cen.; David Baxter, A.B., Research Fellow, UCLA-Med. Cen.; Los Angeles, Calif. (9188)

2683. Some Effects of Limited Focus Group Psychotherapy on Attitudes of Student Nurses.

Evelyn Crumpton, Ph. D., Clin. Psychol., VAC; Edith Schultz, R.N., Psychiat. Nurse, VAC; Sister John Bernard, R.N., Instr. Psychiat. Nursing, Mt. St. Mary's Col.; Los Angeles, Calif. (9189)

2684. The Hospitalized Veteran: Ten Years Ago and Now.

Evelyn Crumpton, Ph. D., Clin. Psychol.; David Wine, Ph. D. Counsel. Psychol. (Vocat.); Los Angeles, Calif. (9190)

2685. Some Effects of Group Psychotherapists' Role-Conceptions.

Evelyn Crumpton, Ph. D., Clin. Psychol.; Esther R. Trynin, M.S.W., Family Care SW; Los Angeles, Calif. (9191)

2686. The Effect of Imiprine Hydrochloride as an Anti-Depressant (A Pilot Study).

Ernest J. White, M.A., M.D., Resident; Los Angeles, Calif. (9193)

2687. Institutionalization: A Psycho-Social Symptom of Hospitalized Schizophrenic Patients.

Olive M. Stone, Ph. D., Assoc. Prof. Sch. SW, UCLA; Dorthea M. Lane, M.A., Asst. Ch. SWS, VAC; Wanda Partridge, M.S.W., Clin. SW; Sam M. Heilig, M.S.W., Clin. SW; Los Angeles, Calif. (9198)

2688. Discharge Against Medical Advice Among Voluntarily Admitted Patients.

Helen Rainville, M.S.W., SW Tr.; Dorthea M. Lane, M.A., Asst. Ch. SWS, VAC; Maurice B. Hamovitch, Ph. D., Prof. Sch. SW, USC; Los Angeles, Calif. (9199)

2689. Adjustment of Employed Women After Night Hospital Care.

Barbara Pearman, M.S.W., SW Tr.; Dorthea M. Lane, M.A., Asst. Ch. SWS, VAC; Maurice B. Hamovitch, Ph. D., Prof., Sch. of SW, USC; Los Angeles, Calif. (9200)

2690. Impact of Parents Having Sons Hospitalized for Mental Illness.

Donald Borbridge, M.S.W., SW Tr.; Anne O'Mara, M.S.W., SW Tr.; Dorthea M. Lane, M.A., Asst. Ch. SWS, VAC; Maurice B. Hamovitch, Ph. D. Prof. Sch. of SW, USC; Los Angeles, Calif. (9201)

2691. Mental Illness in Married Male Patients: Impact on Wives.

Virginia Dietterle, M.S.W., SW Tr.; Janice Wolk, M.S.W., SW Tr.; Dorthea M. Lane, M.A., Asst. Ch. SWS, VAC; Maurice B. Hamovitch, Ph. D., Prof., Sch. of SW, USC; Los Angeles, Calif. (9202)

2692. A Preliminary Evaluation of Trifluoperazine.

Sidney Cohen, M.D., Asst. Ch. Med. Serv., VAC; Keith Ditman, M.D., Dir. Alcoholism Research Proj., Asst. Prof. Psychiat., UCLA-Med. Cen.; Horace B. Mooney, M.D., Research Psychiat., UCLA-Med. Cen.; Los Angeles, Calif. (9884)

2693. A Study of Personality Differences Between Terminators and Remainers in Psychotherapy.

James L. Chipps, Ph. D., Ch. Clin. Psychol. Serv., Ment. Hygiene Clinic; Thomas M. McMillan, M.D., Psychiat., Ment. Hygiene Clinic, VAOC; Los Angeles, Calif. (11112)

2694. Group Psychotherapy with Wives of Veterans.

James C. Coble, M.S.W., Ch. SW, Ment. Hygiene Clinic, VAOC; Los Angeles, Calif. (11113)

2695. Evaluation of the Day Care Center with Chronic Neuropsychiatric Patients.

Thomas M. McMillan, M.D., Psychiat., Ment. Hygiene Clinic; Beverly F. Davenport, Ph. D., Clin. Psychol., Ment. Hygiene Clinic; James L. Chipps, Ph. D., Ch. Clin. Psychol. Serv., Ment. Hygiene Clinic; Arthur A. Maes, B.A., Ch. SW; Friedrich W. Koehler, SW, VAOC; Los Angeles, Calif. (11114)

2696. Day Care Treatment Program.

Thomas M. McMillan, M.D., Psychiat., Ment. Hygiene Clinic; Beverly F. Davenport, Ph. D., Clin. Psychol., Ment. Hygiene Clinic, VAOC; Los Angeles, Calif. (11115)

2697. A Method of Observing Moves Toward Health or Illness in Chronic Neuropsychiatric Patients.

Beverly F. Davenport, Ph. D., Clin. Psychol., Ment. Hygiene Clinic; James L. Chipps, Ph. D., Ch. Clin. Psychol. Serv., Ment. Hygiene Clinic; Thomas M. McMillan, M.D., Psychiat., Ment. Hygiene Clinic, VAOC; Los Angeles, Calif. (11116)

2698. Group Therapy With Married Couples.

Elizabeth A. Weir, MSW, Senior Clin. SW, Ment. Hygiene Clinic; James L. Chipps, Ph. D., Ch. Clin. Psychol. Serv., Ment. Hygiene Clinic, VAOC; Los Angeles, Calif. (11117)

2699. Reaction of Patients to Change of Therapist.

Mortimer M. Meyer, Ph. D., Ch. Clin. Psychol., Ment. Hygiene Serv.; Ruth S. Tolman, Ph. D., Clin. Psychol., VAOC; Los Angeles, Calif. (11125)

2700. Personality Patterns in Mild and Seriously Ill Peptic Ulcer Patients.

Herman Feifel, Ph. D., Clin. Psychol. Ment. Hygiene Serv.; Emanuel Sigoloff, M.D., Ch. Med. Out-Patient Serv.; Martin N. Gordon, M.D., Psychiat.; May Lihtz, M.S.W., Psychiat. SW, VAOC; Los Angeles, Calif. (11126)

2701. Social Conformity in the Mentally Ill.

Herman Feifel, Ph. D., Clin. Psychol. Ment. Hygiene Serv., VAOC; Los Angeles, Calif. (11127)

2702. The Patient Looks at Therapy.

Herman Feifel, Ph. D., Clin. Psychol. Ment. Hygiene Serv., VAOC; Los Angeles, Calif. (11128)

2703. Attitudes Toward Death of Terminally Ill Persons.

Herman Feifel, Ph. D., Clin. Psychol. Ment. Hygiene Serv.; Joseph Heller, M.D., Staff Psychiat. Ment. Hygiene Serv., VAOC; August M. Kasper, M.D., Asst. Clin. Prof. Psychiat., Univ. of Southern California Sch. of Med.; Sidney L. Pomer, M.D., Clin. Instr. Psychiat., Univ. of Southern California Sch. of Med.; Los Angeles, Calif. (11129)

2704. Language Behavior of Pre- and Post-Operative Brain Tumor Cases.

Lucille Kaplan, A.M., Speech Retraining Therapist; Louisville, Ky. (5436)

2705. Validation and Scoring of the Lowenfeld Mosaic Test.

David Rosenberg, Ph. D., Asst. Ch. Clin. Psychol.; Louisville, Ky. (5438)

2706. Study of the Patient's Personality and Its Relationship to His Illness.

William Jackson, Med. Student; Louisville, Ky. (5439)

2707. A Study of the Effect of Size of Print upon Reading Rate and Comprehension in Both Aphasic and Non-Aphasic Subjects.

Lucille T. Kaplan, M.A., Speech Therapist, Louisville, Ky.; Robert Milisen, Ph. D., Prof. Speech Path., Indiana Univ.; Bloomington, Ind. (10743)

2708. A Descriptive Continuum of Language Responses in Aphasia.

Lucille T. Kaplan, M.A., Speech Therapist; Louisville, Ky. (10744)

2709. Psychological Aspects of Myxedema.

Morton Leventhal, Ph. D., Ch. Clin. Psychol. Sect.; Maurice Nataro, M.D., Ch. RI Serv.; Louisville, Ky. (10745)

2710. A Comparison Between Group-Centered and Individual-Centered Activity Programs.

Herman Y. Efron, Ph. D., Psychol. Coord. Psychiat. Eval. Proj.; Harry K. Marks, M.D., Ward Phys.; Richard Hall, Ed. M., Exec. Asst., PMR Serv.; Lyons, N.J. (5501)

2711. Clinical Results With Stress Conditioning in Chronic Schizophrenic Patients as Correlated With Response to Stressor Agents.

Leslie S. Freeman, M.D., Asst. Dir. Prof. Serv. for Research and Educ.; Seymour Robins, M.D., Ward Phys.; Paul J. Kiell, M.D., Resident Psychiat.; Lyons, N.J. (5502)

2712. The Effectiveness of Casework With Relatives and Schizophrenic Patients Leaving the Hospital.

Emily R. Scanlan, M.A., Ch. SWS; Rebecca V. Myers, M.S.W., Asst. Ch. SWS; Laura E. Spencer, M.S.W., SW; Elizabeth L. Goucher, M.S.W., Research SW; Lyons, N.J. (5505)

2713. Changes in Recognition Thresholds Associated With Chlorpromazine, Promazine and Phenobarbital.

Herman Y. Efron, Ph. D., Psychiat. Eval. Proj. Coord.; Lyons, N.J. (5507)

2714. The Rorschach as a Prognostic Device With Hospitalized Patients.

Herman Y. Efron, Ph. D., Coord., Psychiat. Eval. Proj.; Lyons, N.J. (5508)

2715. The Efficacy of Brief Contacts With Long Term Schizophrenic Patients.

Earl X. Freed, Ph. D., Psychol.; Lyons, N.J. (10699)

2716. The Study of the Use of Hydroxyzine (Atarax) in Psychosis.

William Schram, M.D., Asst. Ch. Intensive Treatment Serv.; Lyons, N.J. (10700)

2717. Change in Attitude as a Result of Group Therapy.

Leon Cohen, Ph. D., Psychol.; Lyons, N.J. (10701)

2718. Balance of Rorschach Determinants as Predictors of Adjustment of Schizophrenic Patients.

Leon Cohen, Ph. D., Psychol.; Lyons, N.J. (10702)

2719. Ethnic Identification of Jewish Patients in a Psychiatric Hospital.

Earl X. Freed, Ph. D., Psychol.; Lyons, N.J. (10703)

2720. Prediction of Patients' Length of Stay.

Eli Alson, Ph. D., Research Psychol.; Leslie S. Freeman, M.D., Asst. Dir. Prof. Serv. for Research & Educ.; Lyons, N.J. (10704)

2721. Effects of Withdrawal of a Tranquilizing Drug (Chlorpromazine).

Eli Alson, Ph. D., Research Psychol.; Leslie S. Freeman, M.D., Asst. Dir. Prof. Serv. for Research & Educ.; Lyons, N.J. (10705)

2722. Reliability Study of Lyons Relationship Scales.

Emily R. Scanlan, M.S., Ch. SWS; Laura E. Spencer, M.S.W., Case Worker; Lyons, N.J. (10706)

2723. Correlates of Age in Tuberculosis.

George Calden, Ph. D., Ch. Clin. Psychol. Serv.; Madison, Wis. (5564)

2724. Sex Differences in Body Concepts.

George Calden, Ph. D., Ch. Clin. Psychol. Serv., VAH; Richard M. Lundy, Ph. D., Cons., Clin. Psychol., VAH, Asst. Prof. Psychol., Univ. of Wisconsin; Richard J. Schlaefer, M.A., Clin. Psychol. Tr., VAH; Madison, Wis. (5565)

2725. The Prediction of Irregular Discharge Among Tuberculosis Patients.

George Calden, Ph. D., Ch. Clin. Psychol. Serv.; Madison, Wis. (10421)

2726. New Approaches to Diagnostic Testing in a Long-term Hospital Setting.

George Calden, Ph. D., Ch. Clin. Psychol. Serv.; Madison, Wis. (10422)

2727. Psychosomatic Factors in Rate of Recovery in Tuberculosis.

George Calden, Ph. D., Ch. Clin. Psychol. Serv., VAH; William C. Lewis, M.D., Cons., Psychiat., VAH, Assoc. Clin. Prof., Psychiat., Univ. of Wisconsin; Jack E. Hokanson, M.A., Teaching Asst., Psychol., Univ. of Wisconsin; Madison, Wis. (10423)

2728. Psychological Testing and the Prediction of Course of Illness.

George Calden, Ph. D., Ch. Clin. Psychol. Serv.; Madison, Wis. (10424)

2729. The Influence of Age on Minnesota Multiphasic Personality Inventory Responses.

George Calden, Ph. D., Ch. Clin. Psychol. Serv., VAH; Jack E. Hokanson, M.A., Teaching Asst., Psychol., Univ. of Wisconsin; Madison, Wis. (10425)

2730. Body Types and Tuberculosis.

George Calden, Ph. D., Ch. Clin. Psychol. Serv., VAH; C. Wesley Dupertuis, Ph. D., Prof. Anthropol., Western Reserve Univ.; William C. Lewis, M.D., Cons., Psychiat., VAH, Assoc. Clin. Prof. Psychiat., Univ. of Wisconsin; Madison, Wis. (10426)

2731. The Influence of Psychological Services on Length of Stay in the Community Following Hospitalization.

Frank V. Touchstone; Marion, Ind. (8375)

2732. The Relationship of Special Service Therapists Personality Characteristics and Patient Activity Preferences to Effectiveness in Meeting Treatment Goals.

William H. Colley; Richard S. Marnocha; Marion, Ind. (8376)

2733. Color and Form in Painting and the Rorschach as Related to Selected Personality Characteristics.

Dale L. Alred; Marion, Ind. (8377)

2734. Changes Accompanying Group Psychotherapy in Hospitalized Patients.

John S. True III; Gloria J. Fischer; Marion, Ind. (8378)

2735. An Investigation of a Method of Scoring Reconciliations of Contradictions.

Eugene Ebner; Gloria J. Fischer; Marion, Ind. (8379)

2736. The Relationship of Personality Characteristics of NP Patients and Length of Stay in Community.

Caesar C. Gregory, Ph. D., Asst. Ch. Psychol. Serv.; Marion, Ind. (10845)

2737. The Relation of Various Type Placements of Ex-patients in the Community to Post-Hospital Adjustment.

Gloria J. Fischer, Ph. D., Coord. Psychiat. Eval. Proj.; Charles F. Hansen, M.A., Clin. SW, Psychiat. Eval. Proj.; Marion, Ind. (10846)

2738. The Constriction Hypothesis: A Basis for Deducing Incidental Learning Findings—II.

Gloria J. Fischer, Ph. D., Coord. Psychiat. Eval. Proj.; Theodore S. Donaldson, M.S., Psychol. Intern; Marion, Ind. (10847)

2739. Community Attitudes Toward Foster Home Care.

Gloria J. Fischer, Ph. D., Coord., Psychiat. Eval. Proj.; William T. Bowen, M.S.W., Clin. SW, Psychiat. Eval. Proj.; Marion, Ind. (10848)

2740. Rigidity and Incidental Learning with Functional Psychotics.

Gloria J. Fischer, Ph. D., Coord. Psychiat. Eval. Proj.; Marion, Ind. (10849)

2741. Constriction in Perceptual Organization of the Field: A Deductive Basis for Predicting Incidental Learning Findings—I

Gloria J. Fischer, Ph. D., Coord. Psychiat. Eval. Proj.; Marion, Ind. (10850)

2742. The Diagnostic Usefulness of Stories Given in Response to Three Kinds of Stimulus Instructions.

Harold W. Faeth Jr., M.A., Psychol. Intern; Morton Hammer, Ph. D., Asst. Ch. Psychol. Serv.; Marion, Ind. (10851)

2743. The Relationship of Attitudes to Adequacy of Functioning of Hospital Volunteer Workers.

William H. Colley, Ph. D., Ch. Psychol. Serv.; Richard S. Marnocha, B.A., Ch. Special Serv., VAH; Marion, Ind.; Norville M. Downie, Ph. D., Cons. Psychol., VAH, Psychol., Purdue Univ.; West Lafayette, Ind. (10852)

2744. Tranquilizer Evaluation.

Hans G. Bauer, M.D., Phys. Med. Serv.; T. H. McGavack, M.D., Ch. Intermed. Serv.; Kung-Ying T. Kao, M.D., Ph. D., Biochem.; Martinsburg, W. Va. (5886)

2745. Denial of Disability in Geriatric Hemiplegics.

Max Apfeldorf, Ph. D., Psychol.; Martinsburg, W. Va. (5898)

2746. Case Analysis of a Patient with Marked "Inattention" in the Left Visual Field.

Max Apfeldorf, Ph. D., Psychol.; Martinsburg, W. Va. (5900)

2747. Intra-individual Repetitive Measurements in Understanding Therapeutic Changes Due to Tranquilizing Medication.

Max Apfeldorf, Ph. D., Psychol.; Dorothy Leake, M.D., Phys. Intermed. Serv.; Martinsburg, W. Va. (8821)

2748. Comparative Study of Tranquilizers.

Dorothy A. Leake, M.D., Phys.; Max Apfeldorf, Ph. D., Psychol.; Thomas H. McGavack, M.D., Ch. Intermed. Serv.; Martinsburg, W. Va. (10816)

2749. A Study of the Efficacy of Treatment of Schizophrenia.

Werner Simon, M.D., Ch. Psychiat. and Neur. Serv.; Robert D. Wirt, Ph. D., Clin. Psychol. Cons., VAH, Assoc. Prof. Psychol., Psychiat., and Child Develop., Univ. of Minnesota; Anne L. Wirt, Ph. D., Clin. Psychol.; Alden V. Halloran, MSW, Case Super. SWS; Robert G. Hinckley, M.D., Cons. VAH, Assoc. Prof. Psychiat. and Ment. Hygienist, Univ. of Minnesota; Minneapolis, Minn. (6264)

2750. Studies of Psychological Measurement of Brain Laterality.

Harold Gilberstadt, Ph. D., Ch. Clin. Psychol.; Minneapolis, Minn. (6265)

2751. A Study of Suicides with Prior Psychological Testing.

Werner Simon, M.D., Ch. Psychiat. and Neur. Serv.; Harold Gilberstadt, Ph. D., Ch. Clin. Psychol.; Minneapolis, Minn. (6266)

2752. Further Evaluation of the Archimedes Spiral Test.

Harold Gilberstadt, Ph. D., Ch. Psychol. Sect.; Jerome D. Schein, Clin. Psychol. Tr.; Albert Rosen, Ph. D., Clin. Psychol.; Minneapolis, Minn. (6267)

2753. Comparison of Anxiety Measurements in Psychotic and Neurotic Patients and the Effect of Tranquilizing Drugs.

Werner Simon, M.D., Ch., Psychiat. and Neur. Serv.; Harold Gilberstadt, Ph. D., Ch., Clin. Psychol. Sect.; Minneapolis, Minn. (6269)

2754. Differential Judgments.

Walter O. Jewell, Ph. D., Coun. Psychol.; Minneapolis, Minn. (6270)

2755. Transaminase in Electro Shock Therapy.

G. Wendell Hopkins, M.D., Staff Psychiat.; Minneapolis, Minn. (6272)

2756. The Effect of Tranquilizing Drugs on Conditioning in "High Anxiety" and "Low Anxiety" Patients.

Werner Simon, M.D., Ch. Psychiat. and Neur. Serv.; Harold Gilberstadt, Ph. D., Ch. Clin. Psychol.; Donald G. Davenport, Clin. Psychol. Tr., VAH; Wallace A. Russell, Ph. D., Cons. VAH, Prof. of Psychol., Univ. of Minnesota; Minneapolis, Minn. (6273)

2757. The Biographical Inventory Compared with Clinical Prediction of Post-Counseling Behavior of VA Hospital Counselees.

Joseph H. Dickerson, Ph. D., Couns. Psychol.; Minneapolis, Minn. (6274)

2758. A Study of the Reading Behavior of Psychiatric Veterans in a GM&S Hospital.

Margaret M. O'Toole, B.S., Ch. Library Serv.; Margery J. Tingstad, B.S., Asst. Ch. Library Serv.; H. Gilberstadt, Ph. D., Ch. Clin. Psychol. Sect.; Minneapolis, Minn. (6276)

2759. Development of a Minnesota Multiphasic Personality Inventory Profile "Cookbook".

Harold Gilberstadt, Ph. D., Ch. Clin. Psychol. Sect.; Jan D. Duker, Ph. D., Clin. Psychol.; Minneapolis, Minn. (6279)

2760. The Effects of Frustration on the Amplitude of a Motor Response.

Clemens Allen Roehl, Clin. Psychol. Tr.; Minneapolis, Minn. (8908)

2761. The Galvanic Skin Response as a Function of Classical Conditioning, "Instructional" Conditioning, and Clinical Anxiety.

Donald Gene Davenport, Clin. Psychol. Tr.; Minneapolis, Minn. (8909)

2762. Attitude of Relatives Toward the Committment Process.

John Z. McKenney, Tr. SWS; Richard H. Gaulke, Tr. SWS; Minneapolis, Minn. (9828)

2763. Social and Situational Factors Characteristic of Psychiatric Patients.

A. Lucile Spriggs, M.S.W., Clin. SW (Psychiat.); Clayton P. Wallin, M.S.W., Clin. SW (Psychiat.); Ray L. Baker, M.S.W., Clin. SW (Psychiat.); Raymond A. Newman, M.S.W., Clin. SW (Med.); Minneapolis, Minn. (9829)

2764. An Exploratory Study of Possible Foster Home Candidates From Hospital Psychiatric Population.

Alden V. Halloran, M.S.W., Clin. SW (Psychiat.); Minneapolis, Minn. (9830)

2765. The Reliability of Spontaneous Choice as an Initial Level for the Evaluation of Patients Participation in Occupational Therapy.

Carol Goodwin, Occup. Therapist; Delores Keleske, Occup. Therapist; Montrose, N.Y. (5296)

2766. Comparative Analysis of the Factors Underlying Admission Symptom Ratings in Twelve Veterans Administration Hospitals.

Jacob Cohen, Ph. D., Psychol.; Montrose, N.Y. (5298)

2767. Patient Government—A Case Study.

Joseph Stubbins, Ph. D., Psychol.; Leonard Solomon, Ph. D., Psychol.; Montrose, N.Y. (5303)

2768. The Relationship Between Prognostic Factors and Rehabilitation in Chronic Schizophrenic Patients.

Leon L. Rackow, Manager; Harold Wilensky, Ph. D., Psychol.; George Rosenberg, M.D., Dir. Prof. Serv.; Montrose, N.Y. (5304)

2769. Analysis of Factors Relating to the Productivity and Supervision of Chronic Schizophrenic Patients in Work Activities and their Significance for Rehabilitation.

Harvey J. Rothstein, Ph. D., Psychol.; Joseph Stubbins, Ph. D., Psychol.; Jacob Meislin, M.D., Ch. PMR Serv.; Seymour G. Klebanoff, Ph. D., Ch. Psychol. Serv.; Leon L. Rackow, M.D., Manager; Montrose, N.Y. (5305)

2770. Attitudes Toward Mental Illness—Factor Analysis and Scale Construction.

Jacob Cohen, Ph. D., Psychol.; Elmer Struening, Ph. D., Psychol.; Montrose, N.Y. (5306)

2771. The Susceptibility to Social Influence of Chronic Schizophrenics in the Formation of Perceptual Judgments.

Carmi Schooler, Soc. Psychol. Tr.; Herbert E. Spohn, Ph. D., Research Psychol.; Montrose, N.Y. (5308)

2772. Social Interaction Patterns in Chronic Schizophrenia.

Herbert E. Spohn, Ph. D., Psychol.; Seymour G. Klebanoff, Ph. D., Ch. Psychol. Serv., VAH; Oskar Diethelm, M.D., Prof. Psychiat., Cornell Med. Coll.; Leon L. Rackow, M.D., Manager, VAH; Montrose, N.Y. (5309)

2773. A Study of the Lymphocytes of Stress in Psychiatric Conditions.

Seigbert Bornstein, M.D., Path.; Allen E. Hussar, M.D., Ch. Med. Serv.; Jerry Seid, B. A., Serol.; Montrose, N.Y. (5310)

2774. Correlates of the Rorschach Developmental Level Score.

Harold Wilensky, Ph. D., Coord. Research, Psychol. Serv.; Montrose, N.Y. (5313)

2775. Studies in Lobotomy and Allied Brain Surgical Projects.

Oskar Diethelm, M.D., Prof. Psychiat., Cornell Univ. Med. Coll.; Bronson Ray, M.D., Prof. Clin. Surg., Cornell Univ. Med. Coll.; Howard S. Dunbar, M.D., Prof. Surg., Cornell Univ. Med. Coll.; Leon L. Rackow, M.D., Manager, VAH; Montrose, N.Y. (5315)

2776. A Group Program With Newly Admitted Psychiatric Patients.

Richard Doran, SW; Montrose, N.Y. (5317)

2777. Glaucoma in the Psychiatric Patient.

Anthony Della Rocca, M.D., Ophth.; Leo Kashe, M.D.; Montrose, N.Y. (5319)

2778. The Factorial Structure of the WISC at Ages 7½, 10½ and 13½.

Jacob Cohen, Ph. D., Psychol.; Montrose, N.Y. (5320)

2779. Social Interaction on a Ward of Chronic Schizophrenic Patients.

Carmi Schooler, Psychol. Tr.; Herbert Spohn, Ph. D., Psychol.; Montrose, N.Y. (5321)

2780. Personnel Selection Project.

Harold Wilensky, Ph. D., Psychol.; Seymour G. Klebanoff, Ph. D., Ch. Psychol. Serv.; Kenneth Bloom, Psychol. Tr.; James Sneed, Ch. Personnel Div.; Clara Bouwhuis, Nursing Serv.; Montrose, N.Y. (5322)

2781. A Comparative Study of Group Versus Individual Instructional Methods as Related to Manual Arts Therapy in an NP Situation.

Harold Adler, Ch. Manual Arts Therapy; Montrose, N.Y. (8696)

2782. The Influence of Health, Pre-Morbid Histories and Inter-Personal Stress on the Verbal Efficiency of Chronic Schizophrenics.

Richard Blumenthal, Soc. Psychol. Tr.; Montrose, N.Y. (8697)

2783. Perceptions of Patient Roles in Hospitalized Chronic Schizophrenics.

Richard Blumenthal, Soc. Psychol. Tr.; Montrose, N.Y. (8698)

2784. A Co-efficient of Agreement for Nominal Scales.

Jacob Cohen, Ph. D., Coord. Psychiat. Eval. Proj.; Montrose, N.Y. (8699)

2785. Reaction to Evaluations by Others as Influenced by Self Evaluations.

Morton Deutsch, Ph. D., Research Psychol., Bell Lab.; Leonard Solomon, Ph. D., Research Psychol. (Soc), VAH; Montrose, N.Y. (8700)

2786. Characteristic Patterns of Ward Behavior in Chronic Schizophrenics.

Marvin Hunter, Soc. Psychol. Tr.; Montrose, N.Y. (8701)

2787. A Ward Psychology Program—The Role of the Hospital Psychologist.

Seymour G. Klebanoff, Ph. D., Ch. Psychol. Serv.; Montrose, N.Y. (8702)

2788. Withdrawal of a Positive Reinforcer and Strength of Behavior in Children.

Charles Kogan, Ph. D., Ward Psychol.; Montrose, N.Y. (8703)

2789. Physiologic and Psychologic Effects of Cold Wet Sheet Envelopment (Packs).

Jack Meislin, M.D., Ch. PMR Serv., VAH; Jerome L. Singer, Ph. D., Psychol., Teachers Coll., Columbia Univ.; Henry Stano, B.S., Ch. Phys. Therapy, VAH; Montrose, N.Y. (8704)

2790. The Supervisor-Supervisee Relationships: A Study of Role Expectations in Relation to Stated Background Factors and Scores on Scales Measuring Authoritarianism.

Katherine D. Morris, R.N., Nursing Serv.; Montrose, N.Y. (8705)

2791. The Relationship Between Authoritarianism, Prejudice and Church Attendance in a Large University Faculty.

Elmer L. Struening, Ph. D., Counsel. Psychol. Tr.; Montrose, N.Y. (8706)

2792. Auditory Perception of Emotion by Schizophrenics and Normals.

John Turner, Clin. Psychol. Tr.; Montrose, N.Y. (8707)

2793. An Evaluation of the Hospital-Regional Office Liaison Pre-Trial Visit Program.

Mrs. Natalie J. Cave, Research and Training Super., VARO; New York, N.Y.; Mrs. Helen Jones, Case Super., VARO; New York, N.Y.; Mr. Louis Kerdman, Case Super., VAOC; Brooklyn, N.Y.; Mr. Max H. Richter, Asst. Ch. SWS, VAH; Northport, N.Y.; Miss Viney E. Williams, Case Super., VAH; Montrose, N.Y. (8708)

2794. The Effect of Social Influence on the Chronic Schizophrenic's Production of Non-Adaptive Responses.

Carmi Schooler, Ph. D., Soc. Psychol. Tr.; Martin Hoch, Soc. Psychol. Tr.; Herbert E. Spohn, Ph. D., Ch. Soc. Psychol. Unit; Montrose, N.Y. (8709)

2795. A Method for the Systematic Analysis of Social Interaction on a Ward of Chronic Schizophrenics.

Leonard Solomon, Ph. D., Research Psychol. (Soc.); Herbert E. Spohn, Ph. D., Research Psychol. (Soc.); Montrose, N.Y. (8710)

2796. Opportunities and Problems in the Treatment of Hospitalized Chronic Schizophrenics.

Leon L. Rackow, M.D., Manager; Herbert E. Spohn, Ph. D., Ch. Soc. Psychol.; Seymour G. Klebanoff, Ph. D., Ch. Psychol. Serv.; George Rosenberg, M.D., Dir. Prof. Serv.; Montrose, N.Y. (8917)

2797. Current Developments in the Rorschach Technique (Symposium).

Harold Wilensky, Ph. D., Ch. Research Sect., Psychol. Serv.; Montrose, N.Y. (8918)

2798. Characteristics of Untestable Patients.

Leonard Wilensky, Ph. D., Ch. Research Sect., Psychol. Serv.; Leonard Solomon, Ph. D., Research Psychol.; Montrose, N.Y. (8919)

2799. A Study of Intra-Familial Relationships of 15 Patients Returned From Trial Visit to Veterans Administration Hospital, Montrose, N.Y.

Jacqueline Neilson, Soc. Serv. Tr.; Montrose, N.Y. (8920)

2800. A Study of a Group Program for Relatives of Psychiatric Patients on the Acute Intensive Treatment Service at Veterans Administration Hospital, Montrose, New York.

Haydee Lopez, Soc. Serv. Tr.; Montrose, N.Y. (8921)

2801. The Influence of Inter-Personal Factors Upon the Performance of Chronic Schizophrenics in Problem Solving Tasks.

Marvin Hunter, Soc. Psychol. Tr.; Montrose, N.Y. (8922)

2802. Applied Psychology Revisited: Ward Psychology in Neuropsychiatric Hospital.

George Frank, Ph. D., Ward Psychol.; Seymour G. Klebanoff, Ph. D., Ch. Psychol. Serv.; Montrose, N.Y. (9218)

2803. Faith (An Essay).

Annette MacDonald, R.N.; Montrose, N.Y. (9219)

2804. Background and Behavioral Characteristics of Domiciliary Members.

Philip M. Carman, Ph. D., Ch. Psychol. Serv., Mountain Home, Tenn. (8772)

2805. A Study of Involuntary Reactions to Stress and How These Involuntary Reactions Might Be Conditioned to Neutral Stimuli.

A. Libby, Ph. D., Ch. Clin. Psychol.; Newington, Conn. (6352)

2806. Measurement and Prediction of Response to Psychotherapy.

David T. Johnson, Ph. D., Ch. Clin. Psychol.; Mary F. Myatt, Ph. D., Asst. Ch. Clin. Psychol., VARO; New Orleans, La. (6451)

2807. Metabolism of Alcohol in Neuropsychiatric Patients.

Robert E. Peck, M.D., Ch. Psychiat. and Neur. Serv.; Joseph Schiller, M.D., Staff Phys., Psychiat. and Neur. Serv.; New York, N.Y. (6527)

2808. Hormonal Factors in Mental Diseases.

Robert E. Peck, M.D., Ch. Psychiat. and Neur. Serv.; Joseph Schiller, M.D., Staff Phys., Psychiat. and Neur. Serv.; New York, N.Y. (6528)

2809. Patterns of Ionic Changes in Patients Receiving Carbon Dioxide Therapy and their Relationship to the Therapeutic Effects.

Robert E. Peck, M.D., Ch. Psychiat. and Neur. Serv.; Joseph Schiller, M.D., Staff Phys., Psychiat. and Neur. Serv.; New York, N.Y. (6529)

2810. An Evaluation of the Effects of Tranquilizing Drugs (Thorazine, Serpasil, etc.) on Psychological Test Performance.

Marianne Beran, Ph. D., Asst. Ch. Psychol. Serv., New York, N.Y. (6532)

2811. A Study of the Problems Related to Bedtime on the Psychiatry Service in the New York VA Hospital.

Frank Tosiello, R.N.; New York, N.Y. (6545)

2812. The Effect of Verbal and Non-Verbal Social Rewards on the Rate of Verbal Conditioning of Schizophrenics and Normals.

Jack Killberg, B.A., Clin. Psychol. Tr.; New York, N.Y. (6546)

2813. Avoidance Conditioning of Alcoholics to Non-Convulsive Stimulation.

Robert E. Peck, M.D., Ch. Psychiat. and Neur. Serv.; Moe A. Goldberg, M.D., Asst. Ch. Psychiat. and Neur. Serv.; New York, N.Y. (6548)

2814. Objective Measures of Perception in Schizophrenics and Normals.

Ruth Cooper, B.A., Clin. Psychol. Tr.; New York, N.Y. (6550)

2815. A Partial Replication of the Perception of Social Disability by Schizophrenic Patients.

David Wolitsky, Clin. Psychol. Tr.; New York, N.Y. (11019)

2816. Manifest Anxiety in Psychiatric Outpatients.

Mattox A. Bailey, Ph. D., Clin. Psychol.; Frank M. Lachmann, Ph. D., Clin. Psychol.; Myron E. Berrick, Ph. D., Clin. Psychol.; Dale H. Ortmeyer, Ph. D., Clin. Psychol., VARO; New York, N.Y. (6465)

2817. A Survey of Patients Screened in a Mental Hygiene Clinic.

Mattox A. Bailey, Ph. D., Clin. Psychol.; Leon Warshaw, Ph. D., Clin. Psychol.; Robert M. Eichler, Ph. D., Clin. Psychol., VARO; New York, N.Y. (6466)

2818. A Study of Criteria for Selecting Psychotherapy Cases in a Mental Hygiene Clinic.

Mattox A. Bailey, Ph. D., Clin. Psychol.; Leon Warshaw, Ph. D., Clinc. Psychol.; Robert M. Eichler, Ph. D., Clin. Psychol., VARO; New York, N.Y. (6467)

2819. A Comparison Between Psychologists' Impression of Some Rorschach Protocols and Recorded Interviews.

Ernest Parkes, Ph. D., Clin. Psychol.; Robert M. Eichler, Ph. D., Clin. Psychol.; Mattox A. Bailey, Ph. D., Clin. Psychol.; Leon Warshaw, Ph. D., Clin. Psychol., VARO; New York, N.Y. (6472)

2820. An Investigation of the Relationship Between Attitudinal Patterns Toward Authority and Pathologically Evidenced Dependency Conflicts.

Myron E. Berrick, Ph. D., Clin. Psychol., VARO; Richard J. Christie, Ph. D., Cons. VARO, Adjunct Prof. Psychol., Columbia Univ.; New York, N.Y. (6473)

2821. Personality Evaluation Through Reactions to Human Photographs.

Leon Warshaw, Ph. D., Clin. Psychol.; Mattox A. Bailey, Ph. D., Clin. Psychol., VARO; New York, N.Y. (10358)

2822. The Structured Interview (A Single Case Study).

Pauline G. Vorhaus, Ed. D., Clin. Psychol., VARO; New York, N.Y. (10854)

2823. Mid-group Respondents to the F Scale and Their Relationship to High and Low Authoritarianism.

Setsu Furuno, M.A., Clin. Psychol. Tr., VARO; New York, N.Y. (10855)

2824. The Inter-relationships of Persuasibility with Aggressive Motivation and the Ability To Express Aggression.

Jay Alan Roland, M.A., Clin. Psychol. Tr., VARO; New York, N.Y. (10856)

2825. A Study of Factors Related to Length of Stay in Psychotherapy.

Mattox A. Bailey, Ph. D., Clin. Psychol.; Leon Warshaw, Ph. D., Clin. Psychol.; Robert M. Eichler, Ph. D., Clin. Psychol., VARO; New York, N.Y. (10857)

2826. The Therapist as a Variable Related to Success in Psychotherapy.

Leon Warshaw, Ph. D., Clin. Psychol.; Mattox A. Bailey, Ph. D., Clin. Psychol., VARO; New York, N.Y. (10859)

2827. Relationship between Duration of Psychotic Process and Performance on Psychological Tests.

Isidor W. Scherer, Ph. D., Ch. Psychol. Serv.; William W. Lothrop, Ph. D., Staff Clin. Psychol.; Northampton, Mass. (6570)

2828. The Non-Institutional Adjustment Scale: A Study in Social Adjustment.

Isidor W. Scherer, Ph. D., Ch. Psychol. Serv.; Arnold Trehub, Ph. D., Ch. Research Sect., Psychol. Serv.; Northampton, Mass. (6572)

2829. The Effect of Auditory Stimulation Upon Visual Duration Threshold.

Arnold Trehub, Ph. D., Ch. Research Sect., Psychol. Serv.; Northampton, Mass. (6585)

2830. Variables Influencing the Effects of the Physical Therapies in a Schizophrenic Population.

Louis Nidorf, M.A., Psychol. Tr., Clark Univ.; Isidor W. Scherer, Ph. D., Ch. Psychol. Serv., VAH; Northampton, Mass. (6589)

2831. Psychophysiological Response Characteristics of Psychiatric Patients: I. Response to Contentless Simple Stimuli.

Arnold Trehub, Ph. D., Ch. Research Sec., Psychol. Serv.; Northampton, Mass. (6591)

2832. The Spiral After-Effect in Lobotomized Patients.

Henry Oppenheim, Ph. D., Ch. Clin. Sec., Psychol. Serv.; Isidor W. Scherer, Ph. D., Ch. Psychol. Serv.; Northampton, Mass. (6596)

2833. Measurement of the *a* and *b* Components in the Diphasic Endosomatic Galvanic Skin Response.

John F. Walsh, B.S., Research Psychol. Tr., Clark Univ.; Arnold Trehub, Ph. D., Ch. Research Sec., Psychol. Serv., VAH; Northampton, Mass. (6608)

2834. Correlates of the b-Component in the Endosomatic Galvanic Skin Response.

Irving Tucker, A.B., Psychol. Tr., Univ. Massachusetts; Arnold Trehub, Ph. D., Ch. Research Sec., Psychol. Serv., VAH; Northampton, Mass. (6609)

2835. A New System for the Distribution of Drugs in Double Blind Investigations.

Frederick H. Heilizer, Ph. D., Staff Research Psychol.; Northampton, Mass. (6610)

2836. A Review of the Experimental Literature on Chlorpromazine.

Frederick H. Heilizer, Ph. D., Staff Research Psychol.; Northampton, Mass. (6611)

2837. A Statistical Analysis of Patient Turnover on a "Mixed" Ward of a VA Neuropsychiatric Hospital.

David S. Bingham, Ph. D., Staff Clin. Psychol.; Northampton, Mass. (6612)

2838. Predicting Length of Hospitalization at a VA Neuropsychiatric Hospital.

Frederick S. Ranno, M.D., Dir. Prof. Serv.; David S. Bingham, Ph. D., Staff Clin. Psychol.; Northampton, Mass. (6613)

2839. A One-Year Admission Sample to a VA Neuropsychiatric Hospital Followed Administratively For One Year Subsequent to Admission.

David S. Bingham, Ph. D., Staff Clin. Psychol.; Isidor W. Scherer, Ph. D., Ch. Psychol. Serv.; Northampton, Mass. (6614)

2840. Patient Movement Into, Out Of, and Among Various Units of a VA Neuropsychiatric Hospital.

David S. Bingham, Ph. D., Staff Clin. Psychol.; Northampton, Mass. (6615)

2841. The Mechanics and Rationale Pertaining to the Interward Transfer of Patients at a Veterans Administration Neuropsychiatric Hospital.

David S. Bingham, Ph. D., Staff Clin. Psychol; Northampton, Mass. (10179)

2842. Some Factors Relating to the Trading of Patients Between Wards of a Veterans Administration Neuropsychiatric Hospital

David S. Bingham, Ph. D., Staff Clin. Psychol.; Northampton, Mass. (10181)

2843. A Comparison of the Impressions of Schizophrenic and Normal Subjects on Two Simulated Scenes of Social Interaction.

Lucien Buck, A.B., Clin. Psychol. Tr.; Northampton, Mass. (10182)

2844. Biographical and Test Covariates of Conceptual Impairment in Schizophrenia.

William W. Lothrop, Ph. D., Staff Clin. Psychol.; Northampton, Mass. (10183)

2845. Inhibition, Facilitation and Rorschach Color Responses.

Sidney Robins, M.A., Clin. Psychol. Tr.; Northampton, Mass. (10184)

2846. A Test for Organic Brain Damage.

Isidor W. Scherer, Ph. D., Ch. Psychol. Serv.; Northampton, Mass. (10185)

2847. A Patient Census at a Veterans Administration Neuropsychiatric Hospital.

David S. Bingham, Ph. D., Staff Clin. Psychol.; Northampton, Mass. (10188)

2848. To Evaluate the Therapeutic Efficacy of Vesprin.

Angelo D. Carra, M.D., Asst. Dir. Prof. Serv.; Richard G. Singer, M.D., Ward Phys., Acute Intensive Treatment Serv.; Northport, N.Y. (8386)

2849. New Formula Dosage of Thorazine and Compazine Spansule.

Harold Zobel, M.D., Ch. Cont. Treatment Serv.; Northport, N.Y. (8390)

2850. The Effects of Pathology on Stimulus Generalization.

Milton Kornrich, M.A., Clin. Psychol. Serv. Tr.; Harry I. Kalish, Ph. D., Psychol. Cons., VAH; Asst. Prof., Adelphi College; Harry Zobel, M.D., Ch. Cont. Treatment Serv.; Northport, N.Y. (8715)

2851. Environmental Factors Significant in the Cases of Those Schizophrenic Patients Readmitted to VAH Northport Prior to the Expiration of Regular Trial Visit.

Frank Sellers, Jr., Tr. SWS; Northport, N.Y. (8923)

2852. A Study of the Relationship of Group Psychotherapy Play Techniques to Reduction of Incontinence in Chronic Schizophrenic Patients.

Alvin R. Talkoff, Ph. D., Clin. Psychol.; Irving J. Blumenthal, M.D., Ward Phys.; Northport, N.Y. (8924)

2853. Serum-glutamic Acid Transaminase Studies.

Arnold Lieberman, M.D., Ch. Med. Serv.; Andrew Kuna, Ph. D., Biochem.; Northport, N.Y. (10193)

2854. Relative Effectiveness and Toxicity of Three Tranquilizers—Chlorpromazine, Trifluoperazine and Perphenazine.

Leon Cohen, Ph. D., Ch. Voc. Couns. Serv.; Matteo Carasso, M.D., Ward Phys.; Northport, N.Y. (10194)

2855. Investigation of the Use of Thorazine.

Henry Tanner, M.D., Dir. Prof. Serv.; Northport, N.Y. (10195)

2856. Investigation of "Compazine" (Proclorperazine) and Cooperativeness of Schizophrenic Patients.

Melvyn Katz, Ph. D., Clin. Psychol.; William Harris. M.D., Ward Phys.; Northport, N.Y. (10196)

2857. Interests as a Factor in Motivation of Schizophrenic Patients.

Irving Shelsky, Ph. D., Couns. Phychol.; Merle Day, Ph. D., Couns. Psychol.; Edward Miller, M.D., Ward Phys.; Northport, N.Y. (10197)

2858. Self Attitudes of Schizophrenic Patients as Revealed by Self Evaluation Techniques Following Success and Failure.

Milton Turbiner, Ph. D., Research Psychol.; Owen E. Nunez, M.D., Ward Phys., Acute Intensive Treatment Serv.; Northport N.Y. (10198)

2859. Vocational Testing of Hospitalized Schizophrenics.

Leon Cohen, Ph. D., Ch. Voc. Couns.; Stanley Fisher, Ed. D., Voc. Couns.; Frederick Fabian, Ed. D., Voc. Couns.; Northport, N.Y. (10199)

2860. Changes in the Verbal Productions of Schizophrenics as a Function of Changes in the Social Perception of Examiner Characteristics.

Siegfried M. Bernd, M.A., Clin. Psychol. Interne; Richard G. Singer, M.D., Ward Phys.; Northport, N.Y. (10200)

2861. Evaluation of Group Psychotherapy with Hospitalized Psychotic Patients.

Max Cooper, Ph. D., Ch. Clin. Psychol Serv.; Northport, N.Y. (10201)

2862. The Effectiveness of Trial Visit Placement in Homes-Other-Than-Own of Psychotic Patients Who Have a History of Problem Drinking.

Sarah Nichols, M.A., Super., Clin. SW; Max Richter, M.A., Asst. Ch. SWS; Allen Pike, M.S., Clin. SW; William Schulthorpe, M.S., Super. Clin. SW; Nathan Kaufman, M.S., Clin. SW; Northport, N.Y. (10207)

2863. An Investigation of the Ego-Defensive Behavior of Patients Having Psycho-Physiological Disorders.

Albert Kostlan, Ph. D., Ch. Clin. Psychol. Sect.; Richard A. Schindler, B.A., Clin. Psychol. Tr.; Oakland, Calif. (6646)

2864. A Study in Solitude in Maximum Achievable Physical Isolation With Water Suspension of Intact Healthy Persons.

Jay T. Shurley, M.D., Ch. Psychiat. Serv.; Oklahoma City, Okla. (6929)

2865. Clinical Evaluation of a Tranquilizer Ectyl Urea.

David C. Mock, M.D., Dir. Exper. Therapeutic Lab., VAH; Hill Britton, Med. Stud., Oklahoma Univ. Med. Sch.; Oklahoma City, Okla. (10018)

2866. Behavoral Effects of New Promazine Derivative Thiopropazate Dihydrochloride.

Jay T. Shurley, M.D., Ch. Psychiat. Serv.; Samuel Glover, M.D., Resident Phys.; Milton Vogt, M.D., Staff Psychiat.; Clint Chambers, Tech.; Oklahoma City, Okla.; (10019)

2867. A Study of Psychology in an Institutional Setting.

Harry Martin, Ph. D., Clin. Psychol.; Oklahoma City, Okla. (10020)

2868. A Psychiatric Study of Acute Brain Syndromes.

Alfonso L. Paredes, M.D., Research Psychiat.; Jay T. Shurley, M.D., Ch. Psychiat. Serv.; Oklahoma City, Okla. (10021)

2869. The Social Organization and Functions of a Psychiatry Service in VA GM/S Hospital: A Case Study.

Jay T. Shurley, M.D., Ch. Psychiat. Serv.; Samuel Meyers, S. Scien.; Oklahoma City, Okla. (10022)

2870. Quantitative Methods for the Determination of 5-Hydroxyindoles.

Fred L. Humoller, Ph. D., Prin. Scien; Delmar J. Mahler, Ph. D., Pharm.; Frank A. Majka, M.D., Ch. Neuropsychiat. Serv.; Omaha, Nebr. (6742)

2871. Factors Influencing the Plasma Amine Oxidase System.

Joseph M. Holthaus, M.D., Ch. Med. Serv.; Frank A. Majka, M.D., Ch. Neuropsychiat. Serv.; Mary Pat Keenan Mockler, B.S., Biochem.; Fred L. Humoller, Ph. D., Prin. Scien.; Omaha Neb. (6743)

2872. Products of Abnormal 5-Hydroxindole Metabolism.

Fred L. Humoller, Ph. D., Prin. Scien.; Delmar J. Mahler, Ph. D., Pharm.; Frank A. Majka, M.D., Ch. Neuropsychiat. Serv.; Omaha, Neb. (6744)

2873. The Influence of Desoxypyridoxine on 5-Hydroxytryptophan Decarboxylase.

Delmar J. Mahler, Ph. D., Pharm.; Fred L. Humoller, Ph. D., Prin. Scien.; Frank A. Majka, M.D., Ch. Neuropsychiat. Serv.; Omaha, Neb. (6745)

2874. Effects of Pineal Extract Administration on the Reproduction Organs and Body Weight of Rats.

Anthony J. Barak, Ph. D., Biochem.; Fred L. Humoller, Ph. D., Prin. Scien.; Omaha, Neb. (6746)

2875. Terms Used to Describe Personality and Their Relationships to Certain Minnesota Multiphasic Personality Scales.

E. S. Taulbee, Ph. D., Ch. Clin. Psychol.; Omaha, Neb. (6750)

2876. A Comparison of the Effects of Lysergic Acid Diethylamide and Bufotenine Upon the Performance of Trained Rats.

Delmar J. Mahler, Ph. D., Pharm.; Fred L. Humoller, Ph. D., Prin. Scien.; Frank J. Majka, M.D., Ch. Neuropsychiat. Serv.; Omaha, Neb. (6754)

2877. Micro-Method for the Quantitative Estimation of Monoamine Oxides.

F. L. Humoller, Ph. D., Prin. Scien.; J. R. Walsh, M.D., Ch. Med. Serv.; J. M. Holthaus, M.D., Ch. Med. Serv.; D. J. Mahler, M.S., Pharm.; Omaha, Neb. (6758)

2879. Evaluation of the Plasma Oxidase Test as a Diagnostic Aid in Psychiatry.

Frank A. Majka, M.D., Ch. Neuropsychiat. Serv.; Fred L. Humoller, Ph. D., Prin. Scien.; Omaha, Neb. (6760)

2880. Observations on the Effect of Various Drugs in Chronic Mental Patients in a GM&S Hospital.

F. A. Majka, M.D., Ch. Neuropsychiatric Serv.; J. D. Stevens, M.D., Psychiat.; Omaha, Neb. (6761)

2881. Pharmacological Properties of the Products of Nuclear Oxidation of the Catechol and Indole Alkylamines.

Delmar J. Mahler, Ph. D., Pharm.; Fred L. Humoller, Ph. D., Prin. Scien.; Frank A. Majka, M.D., Ch. Neuropsychiat. Serv.; Omaha, Neb. (10223)

2882. Edema from Eating Salt.

Leo E. Hollister, M.D., Ch. Med. Serv.; Palo Alto, Calif. (6795)

2883. Protein Fractions of Cerebrospinal Fluid: I. Determination by Paper Electrophoresis: II. Relationship to Colloidal Gold Test.

Virginia L. Cull, M.D., Ch. Lab. Serv.; William A. Dunlap, M.A., Bact. Lab. Serv.; Palo Alto, Calif. (6798)

2884. The Effect of Insulin on Intracellular Phosphorylation in Schizophrenia.

Akira Nakao, Ph. D., Research Biochem.; Frances Moore, B.S., Clin. Biochem.; Palo Alto, Calif. (6799)

2885. Chromatographic Investigation of Diazo-Coupling Components in the Urine of Schizophrenics.

Akira Nakao, Ph. D., Research Biochem.; Marjorie Ball, B.S., Chem.; Palo Alto, Calif. (6800)

2886. Effects of Reserpine on the Emotional Processes in Early Chronic Schizophrenics.

Ben C. Finney, Ph. D., Ch. Psychotherapy; Glen A. Brackbill, Ph. D., Super., Tr. and Serv. Unit 1, Psychol. Serv.; S. D. Schultz, Ph. D., Clin. Psychol. Serv.; Palo Alto, Calif. (6803)

2887. Characteristics of High School Students Who Later Develop Schizophrenia.

John M. Daily, Ph. D., Clin. Psychol.; Palo Alto, Calif. (6804)

2888. The Empirical Development of a Minnesota Multiphasic Personality Inventory Scale for Assaultive Behavior.

S. D. Schultz, Ph. D., Clin. Psychol. Serv.; Palo Alto, Calif. (6805)

2889. The Therapist as a Factor in Psychotherapy.

George Krieger, M.D., Act. Ch. Acute Intensive Serv., VAH; Don D. Jackson, M.D., Psychiat. Cons., Palo Alto Med. Research Found.; Genevieve Knupfer, M.D., Psychiat. Cons.; Palo Alto, Calif. (6806)

2890. A Study of the Use of the Sheltered Workshop as a Means of Rehabilitating Patients With Psychiatric Disease.

Roy S. Hubbs, M.D., Dir. Prof. Serv.; Palo Alto, Calif. (6807)

2891. An Investigation of Degree of Contact With Reality With Special Reference to Level of Confidence.

Joe K. Adams, Ph. D., Cons., Psychol.; Stuart Oskamp, B.A., Tr. Psychol. Serv.; Alvin Haimson, M.A., Tr. Psychol. Serv.; Palo Alto, Calif. (6808)

2892. The Role of the Paradoxes of Abstraction in Communication: The Elaboration of Theory: I. The Role of the Paradoxes of Abstraction in Communication: The Elaboration of Theory: II.

Gregory Bateson, M.A., Ch. Ethnol. Serv., VAH; J. Haley, M.A., Research Assoc., Stanford Univ.; J. Weakland, M.A., Research Assoc., Stanford Univ.; Palo Alto, Calif. (6809)

2893. Interaction Between Patients and Relatives.

Gregory Bateson, M.A., Ch. Ethnol. Serv., VAH; J. Haley, M.A., Research Assoc., Stanford Univ.; J. Weakland, M.A., Research Assoc., Stanford Univ.; Palo Alto, Calif. (6811)

2894. Film Examination of Parent-Child Relationships.

Gregory Bateson, M.A., Ch. Ethnol. Serv.; Palo Alto, Calif. (6812)

2895. An Examination of Patient-Therapist Interviews.

Gregory Bateson, M.A., Ch. Ethnol. Serv., VAH; J. Haley, M.A., Research Assoc., Stanford Univ.; J. Weakland, M.A., Research Assoc., Stanford Univ.; Palo Alto, Calif. (6813)

2896. An Attempt to Simulate the Schizophrenogenic Process on a Big Computer.

Gregory Bateson, M.A., Ch. Ethnol. Serv.; Palo Alto, Calif. (6814)

2897. Relations Between Hypnotic Trance and Schizophrenia.

Gregory Bateson, M.A., Ch. Ethnol. Serv., VAH; J. Weakland, M.A., Research Assoc., Stanford Univ.; M. Erickson, M.D., Research Cons., Ethnol., VAH; J. Haley, M.A., Research Assoc., Stanford Univ.; Palo Alto, Calif. (6815)

2898. Conflict and Defenses as a Predictor of Response to Humor.

Paul McReynolds, Ph. D. Ch. Research, Psychol. Serv.; D. Byrne, Ph. D., Tr. Psychol. Serv.; J. Terrill, Ph. D., Tr. Psychol. Serv.; Palo Alto, Calif. (6818)

2899. Increased Perceptual Input in the Treatment of Schizophrenic Symptomatology.

Paul McReynolds, Ph. D., Ch. Research, Psychol. Serv.; Palo Alto, Calif. (6825)

2900. A Theoretical Approach to Certain Aspects of Schizophrenia.

Paul McReynolds, Ph. D., Ch. Research, Psychol. Serv.; Palo Alto, Calif. (6827)

2901. Tranquilizing Drugs and Standards of Conceptualization.

Paul McReynolds, Ph. D., Ch. Research, Psychol. Serv.; Palo Alto, Calif. (6829)

2902. The Present Status of Tranquilizing Drugs.

Leo E. Hollister, M.D., Ch. Med. Serv.; Palo Alto, Calif. (6830)

2903. Therapeutic Trial of 'Antistine' in Schizophrenia.

Leo E. Hollister, M.D., Ch. Med. Serv.; Frederic S. Glazener, M.D., Asst. Ch. Med. Serv.; Palo Alto, Calif. (6831)

2904. Clinical Trial of TP–21 ('Mellaril').

Leo E. Hollister, M.D., Ch. Med. Serv.; Benjamin F. Macdonald, M.D., Resident Psychiat.; Palo Alto, Calif. (6832)

2905. Clinical Study of Trifluoperazine ('Stelazine').

Leo E. Hollister, M.D., Ch. Med. Serv.; Gertrude V. Erickson, M.D., Ward Ch.; Francis P. Motzenbecker, M.D., Ward Ch.; Palo Alto, Calif. (6833)

2906. Clinical Relationship Between Paralysis Agitans and Schizophrenia.

Leo E. Hollister, M.D., Ch. Med. Serv.; F. S. Glazener, M.D., Asst. Ch. Med. Serv., Ward Ch.; Palo Alto, Calif. (6834)

2907. Perceptual Defense and Binocular Rivalry.

Hugh Kohn, Ph. D., Research Assoc. Psychol. Serv.; Palo Alto, Calif. (6839)

2908. Value of Pegboard Display in Occupational Therapy Clinics as Visual Aid in Treatment Program.

William Thiel, Ph. B., Coord., PMR Serv.; Beverly J. Bowden, B.A., Occup. Therapy Tr.; Carol Ann Loo, B.A., Occup. Therapy Tr.; Delmer L. Scoonover, B.A., Occup. Therapy; Palo Alto, Calif. (6840)

2909. Experimental and Quantitative Studies of Double Bind Sequences.

Gregory Bateson, M.A., Ch. Ethnol. Serv., VAH; Jay Haley, M.A., Research Assoc., Stanford Univ.; John H. Weakland, Research Assoc., Stanford Univ.; Alexander Bavelas, Ph. D., Cons., Palo Alto Med. Research Foundation; Palo Alto, Calif. (8459)

2910. Effect of Group Participation on Accuracy of Casework Decision.

Virginia C. Berkman, M.S.W., Research SW, Psychiat. Eval. Proj.; H. John Wax, M.A., Ch. SWS; Leonard P. Ullmann, Ph. D., Coord., Psychiat. Eval. Proj.; Palo Alto, Calif. (8460)

2911. Measuring the Importance of Social Work Contacts with Psychiatric Patients Returning to the Community.

Virginia C. Berkman, M.S.W., Research SW Psychiat. Eval. Proj.; Leonard P. Ullmann, Ph. D., Coord., Psychiat. Eval. Proj.; Palo Alto, Calif. (8461)

2912. Simulation of Social Desirability on the Minnesota Multiphasic Personality Inventory by Psychiatric Patients.

William C. Burns, B.S., Tr. Psychol. Serv.; Palo Alto, Calif. (8462)

2913. The Relationship Between Premorbid Personality and Response to Reward and Punishment.

Ralph Forsyth, M.A., Tr. Psychol. Serv.; Leonard P. Ullmann, Ph. D., Coord. Psychiat. Eval. Proj.; Palo Alto, Calif. (8463)

2914. The Effects of Conceptual Development upon Fantasy Productions.

Arnold R. Goldman, B.A., Tr. Psychol. Serv.; Palo Alto, Calif. (8464)

2915. The Effects of Lack of Inter-Individual Contact in Young Mice (Social Deprivation) on their Subsequent Adult Tendencies to Approach and Explore Other Mice.

Alan M. Hartman, M.S., Research Tr., Psychol. Serv.; Paul McReynolds, Ph. D., Ch. Research, Psychol. Serv.; Palo Alto, Calif. (8465)

2916. The Effect of Reduced Distance Cues on the Apparent Size of the After-Image in Schizophrenic Patients.

Alan M. Hartman, M.S., Research Tr., Psychol. Serv.; Palo Alto, Calif. (8466)

2917. Effects of Chronic Administration of LSD–25.

Leo E. Hollister, M.D., Ch. Med. Serv.; Frances Moore, M.S., Biochem.; Joe K. Adams, Ph. D., Cons. Psychol.; Palo Alto, Calif. (8473)

2918. Personality Correlates of Apparent Motion.

Hugh Kohn, Ph. D., Research Assoc., Psychol. Serv.; Palo Alto, Calif. (8477)

2919. Verbal Conditioning of Emotional Expressiveness of Neuropsychiatric Patients: Relationship to Behavior in Group Therapy.

Leonard Krasner, Ph. D., Coord. Training; Leonard P. Ullmann, Ph. D., Coord. Psychiat. Eval. Proj.; Palo Alto, Calif. (8478)

2920. Personality Variables Related to Verbal Conditioning.

Leonard Krasner, Ph. D., Coord. Training; Leonard P. Ullmann, Ph. D., Coord. Psychiat. Eval. Proj.; Palo Alto, Calif. (8479)

2921. Socio-Psychological Characteristics of Schizophrenic Patients Who are Selected for and Benefit from Psychotherapy in a Hospital Setting.

George Krieger, M.D., Act. Ch. Acute Intensive Serv.; Don. D. Jackson, M.D., Psychiat. Cons., VAH, Palo Alto Med. Research Foundation; Genevieve Knupfer, M.D., Psychiat. Cons.; Palo Alto, Calif. (8480)

2922. The Relationship of Schizophrenic Withdrawal to Novelty-Seeking Tendencies.

Paul McReynolds, Ph. D., Ch. Research, Psychol. Serv.; Palo Alto, Calif. (8481)

2923. A Preliminary Investigation of Human Motivation.

Paul McReynolds, Ph. D., Ch. Research, Psychol. Serv.; Mary Acker, M.S., Psychol. Serv.; Palo Alto, Calif. (8482)

2924. Patterns of Concept Formation in Schizophrenia.

Paul McReynolds, Ph. D., Ch. Research, Psychol. Serv.; Mary Acker, M.S., Psychol. Serv.; Beverly Collins, B.A., Psychol. Serv.; Palo Alto, Calif. (8483)

2925. Increase in Tension as a Function of the Accumulation of Unassimilated Percepts.

Paul McReynolds, Ph. D., Ch. Research, Psychol. Serv.; Beverly Collins, B.A., Psychol. Serv.; Palo Alto, Calif. (8484)

2926. Comparison of Evaluated Social Adjustment by Ex-Neuropsychiatric Patients and Other Informants.

Leonard P. Ullmann, Ph. D., Coord., Psychiat. Eval. Proj.; Virginia C. Berkman, M.S.W., Research SW, Psychiat. Eval. Proj.; Palo Alto, Calif. (8486)

2927. On the Relationship Between Amount of Hospitalization and Self-Assertion.

Leonard P. Ullmann, Ph. D., Coord., Psychiat. Eval. Proj.; Palo Alto, Calif. (8487)

2928. Study of Concept Formation Through Application of Techniques of Probability Learning.

Leonard P. Ullmann, Ph. D., Coord., Psychiat. Eval. Proj.; Palo Alto, Calif. (8488)

2929. Patterns of Home Care Sponsors' Behavior.

Leonard P. Ullmann, Ph. D., Coord., Psychiat. Eval. Proj.; Barbara H. Schilling, A.B., Volunteer Serv.; Palo Alto, Calif. (8489)

2930. Comparison of Patients Placed in Home Care and Patients Referred to but Not Placed in Home Care.

Leonard P. Ullmann, Ph. D., Coord., Psychiat. Eval. Proj.; Helen Morse, A.B., Volunteer Serv.; Palo Alto, Calif. (8490)

2931. Comparison of Patients Placed on Trial Visit to Home Care and Non-Home Care.

Leonard P. Ullmann, Ph. D., Coord., Psychiat. Eval. Proj.; Antoinette May, A.B., Volunteer Serv.; Palo Alto, Calif. (8491)

2932. Clinical Evaluation of IT–290.

Leo E. Hollister, M.D., Ch. Med. Serv.; Palo Alto, Calif. (8854)

2933. Clinical Evaluation of a New Phenothiazine Derivative, SKF–5883.

Leo E. Hollister, M.D., Ch. Med. Serv.; Gertrude V. Erickson, M.D., Ward Ch.; Frank Motzenbecker, M.D., Ward Ch.; Palo Alto, Calif. (8855)

2934. A Study of Withdrawal Reactions to Meprobamate.

Leo E. Hollister, M.D., Ch. Med. Serv.; Palo Alto, Calif. (8856)

2935. Clinical Evaluation of 'Vistaril' (Hydroxyzine Pamoate).

Leo E. Hollister, M.D., Ch. Med. Serv.; Frederic S. Glazener, M.D., Ward Ch.; Palo Alto, Calif. (8857)

2936. Clinical and Pharmacologic Evaluation of P–1133.

Leo E. Hollister, M.D., Ch. Med. Serv.; Frederic S. Glazener, M.D., Ward Ch.; Palo Alto, Calif. (8860)

2937. Judgments of Outcome of Home Care Placement From Psychological Material.

Leonard P. Ullmann, Ph. D., Coord. Psychiat. Eval. Proj.; Virginia Conner Berkman, M.S.W., Clin. SW; Palo Alto, Calif. (10389)

2938. Improved Clinical Screening of Phrenotropic Drugs.

Leo E. Hollister, M.D., Ch. Med. Serv.; John J. Prusmack, M.D., Manager; Palo Alto, Calif. (10430)

2939. Comparative Clinical Pharmacologic Evaluation of Several Psychotomimetic Drugs in Volunteer Subjects.

Leo E. Hollister, M.D., Ch. Med. Serv.; Joe K. Adams, Ph. D., Cons. Psychol.; Frederic S. Glazener, M.D., Asst. Ch. Med. Serv.; James Paulsen, M.D., Ch. PMR Serv.; Palo Alto, Calif. (10431)

2940. Clinical Trial of SKF-8441 in Patients With Elevated Serum Lipids.

Leo E. Hollister, M.D., Ch. Med. Serv.; Frederic S. Glazener, M.D., Asst. Ch. Med. Serv.; Palo Alto, Calif. (10433)

2940. Clinical Trial of SKF-2623 in Patients With Elevated Serum Lipids.

Leo E. Hollister, M.D., Ch. Med. Serv.; Frederic S. Glazener, M.D., Asst. Ch. Med. Serv.; Palo Alto, Calif. (10434)

2941. The Effect of Previous Experience on the Reactions to Socially Incongruent Stimuli.

Martin Molof, B.A., Tr. Psychol. Serv.; Palo Alto, Calif. (10435)

2942. The Relation of Exploratory Behavior to Anxiety and Intelligence in Children.

Paul McReynolds, Ph. D., Ch. Research, Psychol. Serv.; Mary Acker, M.S., Research Asst., Psychol. Serv.; Palo Alto, Calif. (10436)

2943. Authoritarianism, Verbal-Conceptual Behavior, and the Process-Reaction Dimension of Schizophrenia.

Victor Lovell, A.B., Tr. Psychol. Serv.; Palo Alto, Calif. (10437)

2944. An Investigation of the Perception of Time by Schizophrenics and Normals.

Clinton C. Brown, Ph. D., Ch. Psychophy. Research; Perry Point, Md. (6969)

2945. Evaluation of a Group Counseling Program.

Richard P. Walsh, Ph. D., Psychol. Serv.; James E. Lindemann, Ph. D., Psychol. Serv.; Fred L. Roath, Ph. D., Psychol. Serv.; Perry Point, Md. (6970)

2946. Group Therapy, Special Activity Programs and the Structure of Groups in a Chronic Schizophrenic Population.

James M. Anker, Ph. D., Psychol. Serv.; Richard P. Walsh, Ph. D., Psychol. Serv.; Perry Point, Md. (6972)

2947. An Analysis of the Effectiveness of Recorded Vocal Stimuli in Producing Responses in Withdrawn Schizophrenics.

Roland Shepard, Ph. D., Clin. Psychol.; Fred Royer, Ph. D., Clin. Psychol.; Clinton Brown, Ph. D., Ch. Invest. Psychophy. Research; Perry Point, Md. (6973)

2948. The Effect of Several Methods of Training on Long Term, Incontinent, Untidy and Regressed Psychiatric Patients.

Hazel Carpenter, R.N., Super. Nursing Serv.; Ralph Simon, Ph. D., Psychol. Serv.; D. Allen, R. N., Nursing Serv.; R. Keithley, R.N., Nursing Serv.; P. Tetrault, R.N., Nursing Serv.; H. Turner, R.N., Nursing Serv.; Perry Point, Md. (6974)

2949. A Critical Review of the Placebo Response.

James R. Whitman, Ph. D., Ch. Clin. App.; Perry Point, Md. (10385)

2950. Clinical Trial of Vespazine.

Eugene M. Caffey, Jr., M.D., AIT Serv.; Perry Point, Md. (10548)

2951. The Effect of Several Methods of Training Incontinent Patients.

Hazel M. Carpenter, R.N., Nursing Serv.; Perry Point, Md. (10549)

2952. Reading Interest Inventory.

Martha Stovall, Ch. Librarian; Perry Point, Md. (10550)

2953. Group Therapy with the Authoritative Mothers.

Dorothy McGriff, Soc. Serv.; Perry Point, Md. (10551)

2954. The Formation of Complex Sets.

James R. Whitman, Ph. D., Ch. Clin. App.; Perry Point, Md. (10552)

2955. Patterns of Exploratory Behavior and Maze-Learning and Their Correlation With Stimulus Complexity.

Fred L. Royer, Ph. D., Ch. Animal Studies, Perry Point, Md. (10553)

2956. An Investigation of Several Aspects of the Arousal Continuum.

Fred L. Royer, Ph. D., Ch. Animal Studies; Perry Point, Md. (10554)

2957. The Influence of the Type of Therapy Received Upon a Patient's Perception of His Illness.

James R. Whitman, Ph. D., Ch. Clin. App.; Perry Point, Md. (10555)

2958. A Study of Family-Patient Relationships of Schizophrenic Patients on Trial Visit.

Jeanne L. Mitchler, SW Tr.; George E. Holland, SW Tr.; Perry Point, Md. (10556)

2959. Operant Food Dispenser.

C. C. Brown, Ph. D., Dir. Psychophy. Research Unit; William Love, Lab. Tech.; Perry Point, Md. (10560)

2960. Chromatographic Analysis of "Aromatic" Products in Schizophrenic Urines. Phase II.

Clara Williams, Ph. D., Biochem., VAH; Frederick Barnes, M.D., Cons., VAH, Prof. Biochem., Johns Hopkins Med. Sch.; Edna Gordon, B.A., Biochem., VAH; Perry Point, Md. (10561)

2960. A Study of the Antigenic Reactions of Brain in Various Psychiatric Disorders. I—Precipitin Reactions.

Clara Williams, Ph. D., Biochem., VAH; Frederick Barnes, M.D., Cons. VAH, Prof. Biochem., Johns Hopkins Med. Sch.; Stephan Mayer, M.D., Psychiat., VAH; Perry Point, Md. (10562)

2961. Chromatographic Analysis of "Aromatic" Products in Schizophrenic Urine. Phase I.

Clara Williams, Ph. D., Biochem., VAH; Frederick Barnes, M.D., Cons. VAH, Prof. Biochem., Johns Hopkins Med. Sch.; Eugene Caffey, M.D., Med. Serv., VAH; James Lindeman, Ph. D., Clin. Psychol.; Perry Point, Md. (10564)

2962. Chromatographic Analysis of "Aromatic" Products in Schizophrenic Urine. Phase III.

Clara Williams, Ph. D., Biochem., VAH; Frederick Barnes, M.D., Cons. VAH, Prof. Biochem., Johns Hopkins Med. Sch.; Perry Point, Md. (10565)

2963. A Study of the Antigenic Reactions of Brain in Various Psychiatric Disorders. II—Complement—Fixation Reactions.

Clara Williams, Ph. D., Biochem., VAH; Frederick Barnes, M.D., Cons. VAH, Prof. Biochem., Johns Hopkins Med. Sch.; Stephan Mayer, M.D., Psychiat., VAH; Perry Point, Md. (10566)

2964. Feeding Preferences of B_6 Deprived Rats.

Gantt, W. H., M.D., Ch. Invest.; Brown, C. C., Ph. D., Dir. Psychophy. Research Lab.; Perry Point, Md. (10567)

2965. A Study of Probability Learning in Schizophrenic.

James R. Whitman, Ph. D., Ch. Clin. App.; Perry Point, Md. (10568)

2966. Influence of the Type of Therapy on the Patient's Perception of His Illness.

James R. Whitman, Ph. D., Research Assoc.; Robert Duffey, Ph. D., Clin. Psychol.; Perry Point, Md. (10569)

2967. Effect of Needs on Selection of Job Duties by Psychiatric Aides.

Richard P. Walsh, Ph. D., Clin. Psychol.; Perry Point, Md. (10570)

2968. The Relationship of Reading to Adjustment and Discharge in a Neuropsychiatric Population.

Martha Stovall, Ch. Librarian; Perry Point, Md. (10571)

2969. Chronicity of Neuropsychiatric Hospitalization: A Predictive Scale.

James M. Anker, Ph. D., Psychol. Serv.; Perry Point, Md. (10572)

2970. Effect of Iproniazid Upon Response Decrement.

Fred L. Royer, Ph. D., Ch. Animal Studies; Perry Point, Md. (10573)

2971. The Effect of Chlorpromazine Upon Response Decrement.

Fred L. Royer, Ph. D., Ch. Animal Studies; Perry Point, Md. (10574)

2972. Abstractive Ability in Schizophrenia.

Whitman, James R., Ph. D., Ch. Clin. App.; Perry Point, Md. (10575)

2973. The Effect of Differential Conditioning of the EEG Upon Subsequent Differential Conditioning of Behavior.

Dr. Fred L. Royer, Ph. D., Ch. Animal Studies, Psychol.; Perry Point, Md. (10576)

2974. A Study of Suggestibility in Schizophrenia.

Whitman, James R., Ph. D., Ch. Clin. App.; Perry Point, Md. (10577)

2975. Relationship Between Social Desirability and Manifest Anxiety in a Neuropsychiatric Population.

Ralph Simon, Ph. D., Psychol. Serv.; Perry Point, Md. (10578)

2976. Electronic Programmer for Human Learning.

J. R. Reus, Ch. Instrument Develop. Sect.; James R. Whitman, Ph. D., Ch. Clin. App.; Perry Point, Md. (10580)

2977. Non-Restrictive Activity Recording in the Dog.

C. C. Brown, Ph. D., Dir. Psychophy. Research Lab.; Perry Point, Md. (10581)

2978. Apparatus for Analog to Digital Display.

J. R. Reus, Ch. Instrument Develop.; C. C. Brown, Ph. D., Dir. Psychophy. Research Lab.; Perry Point, Md. (10583)

2979. Multi-Criterion Comparison of the Relative Efficiency of Four Psychotherapeutic Programs for Three Different Patient Groups.

G. W. Fairweather, Ph. D., Psychol. Serv.; R. Simon, Ph. D., Psychol. Serv.; M. E. Gebhard, Ph. D., Psychol. Serv.; Eric Weingarten, Ph. D., Psychol. Serv.; J. L. Holland, Ph. D., Psychol. Serv.; R. Sanders, Ph. D., Psychol. Serv.; Gideon B. Stone, Ph. D., Psychol. Serv.; J. E. Reahl, M. D., Psychiat. Serv.; Perry Point, Md. (10806)

2980. The Validity of Certain Procedures Used in Selecting for Group Therapy Patients Having Somatic Reactions That Are Primarily Psychophysiologic.

Clayton L. Boyer, M.S.W., Super. Clin. SW; S. Stansfeld Sargent, Ph. D., Clin. Psychol.; Phoenix, Ariz. (6986)

2981. A Study of the Effectiveness of Group Psychotherapy with a Select Sample of Outpatients Having Somatic Reactions That Are Primarily Psychophysiological.

Clayton B. Boyer, M.S. W., Super. Clin. SW; S. Stansfeld Sargent, Ph. D., Clin. Psychol.; Phoenix, Ariz. (6987)

2982. Intracellular Distribution and Iproniazid Inhibition of Monoamine Oxidase in the Brain and Liver.

Melvyn I. Gluckman, Ph. D., Neuropharm.; Amedeo S. Marrazzi, M.D., Dir. Research Lab. in Neuropsychiat.; Pittsburgh, Pa. (8330)

2983. Cerebral Synaptic Transmission in Health and Disease.

Amedeo S. Marrazzi, M.D., Dir. Research Lab. in Neuropsychiat.; E. Ross Hart, Ph. D., Ch. Div. Neurophy. and Neuropharm.; José M. Rodriguez, M.D., Neuropharm. Tr.; James E. Wilson, Ph. D., Neuropharm. Tr.; Pittsburgh, Pa. (8331)

2984. The Relation of Some Brain Metabolites to Potential Endogenous Psychotogens.

Amedeo S. Marrazzi, M.D., Dir. Research Lab. in Neuropsychiat.; E. Ross Hart, Ph. D., Ch. Div. Neurophy. and Neuropharm.; Melvyn I. Gluckman, Ph. D., Neuropharm.; José M. Rodriguez, M.D., Neuropharm. Tr.; Pittsburgh, Pa. (8332)

2985. The Use of Exogenous Psychotogens in Analyzing the Mechanism of Natural Psychoses.

Amedeo S. Marrazzi, M.D., Dir. Research Lab. in Neuropsychiat.; Pittsburgh, Pa. (8333)

2986. The Cerebral Synaptic Actions of Lysergic Acid Diethylamide Analogs of Possible Therapeutic Value.

E. Ross Hart, Ph. D., Ch. Div. Neurophys. and Neuropharm.; Amedeo S. Marrazzi, M.D., Dir. Research Lab. in Neuropsychiat.; James E. Wilson, Ph. D., Neuropharm. Tr.; Pittsburgh, Pa. (8334)

2987. The Cerebral Therapeutic and Toxic Synaptic Actions of Tranquilizers.

Amedeo S. Marrazzi, M.D., Dir. Research Lab. in Neuropsychiat.; E. Ross Hart, Ph. D., Ch. Div. Neurophy. and Neuropharm.; James E. Wilson, Ph. D., Neuropharm. Tr.; Pittsburgh, Pa. (8335)

2988. Analysis of Conditioning During Direct Electrical Stimulation and Recording of the Exposed Cat Brain.

Larry Stein, Ph. D., Research Psychol.; E. Ross Hart, Ph. D., Ch. Div. Neurophy. and Neuropharm.; Amedeo S. Marrazzi, M.D., Dir. Research Lab. in Neuropsychiat.; Pittsburgh, Pa. (8337)

2989. The Metabolism of Ribonucleic Acid (RNA) in the Brain and Its Modification.

Richard Abrams, Ph. D., Ch. Neurochem. Div., Research Lab. in Neuropsychiat.; Pittsburgh, Pa. (8338)

2990. The Neuroanatomical Basis for an Inhibitory Action of Optic Cortex on a Subcortical Relay (Lateral Geniculate) in the Cat Brain.

Jose M. Rodriguez, M.D., Neuropharm. Tr., Research Lab. in Neuropsychiat.; Elizabeth C. Crosby, Ph. D., Cons. Neuroanat., Research Lab. in Neuropsychiat., Prof. of Anatomy, Univ. of Michigan Med.; Pittsburgh, Pa. (8339)

2991. Neurochemistry of Learning.

Larry Stein, Ph. D., Research Psychol.; Melvyn I. Gluckman, Ph. D., Neuropharm.; Richard Abrams, Ph. D., Ch. Neurochem. Div.; Amedeo S. Marrazzi, M.D., Dir. Research Lab. in Neuropsychiat.; Pittsburgh, Pa. (8340)

2992. The Behavioral Effects of Tranquilizers in the Monkey.

Larry Stein, Ph. D., Research Psychol.; Oakley S. Ray, Ph. D., Clin. Psychol. Tr.; E. Ross Hart, Ph. D., Ch. Div. Neurophy. and Neuropharm.; Amedeo S. Marrazzi, M.D., Dir. Research Lab. in Neuropsychiat.; Pittsburgh, Pa. (8344)

2993. Reproduction of Symptomatic Aspects of Psychosis in Experimental Animals.

Amedeo S. Marrazzi, M.D., Dir. Research Lab. in Neuropsychiat.; Larry Stein, Ph. D., Research Psychol.; E. Ross Hart, Ph. D., Ch. Div. Neurophys. and Neuropharm.; Oakley S. Ray, Ph. D., Clin. Psychol. Tr.; Pittsburgh, Pa. (8347)

2994. A Neurophysiological Concept of Hallucination and Illusion—Laboratory.

Amedeo S. Marrazzi, M.D., Dir. Research Lab. in Neuropsychiat.; E. Ross Hart, Ph. D., Ch. Div. Neurophys. and Neuropharm.; Larry Stein, Ph. D., Research Psychol.; Jose M. Rodriguez, M.D., Neuropharm. Tr.; Pittsburgh, Pa. (8348)

2995. A Neurophysiological Concept of Hallucination and Illusion—Clinical.

Amedeo S. Marrazzi, M.D., Dir. Research Lab. in Neuropsychiat.; E. Ross Hart, Ph. D., Ch. Div. Neurophy. and Neuropharm.; Eugene L. Youngue, M.D., Ch. Neur. Serv.; Murray Lonstein, Ph.D., Ch. Clin. Psychol. Serv.; Pittsburgh, Pa. (8349)

2996. The Influence of Iproniazid on Brain Function.

Amedeo S. Marrazzi, M.D., Dir. Research Lab. in Neuropsychiat.; Melvyn I. Gluckman, Ph. D., Neuropharm.; Pittsburgh, Pa. (8350)

2997. Examination of Blood for Circulating Psychotogens.

Amedeo S. Marrazzi, M.D., Dir. Research Lab. in Neuropsychiat., VAH; Alice G. Renfrew, Ph. D., Mellon Inst. Chem. Fellow; E. Ross Hart, Ph. D., Ch. Div. Neurophy. and Neuropharm., VAH; Melvyn I. Gluckman, Ph. D., Neuropharm.; Jose M. Rodriguez, M.D., Neuropharm. Tr.; James E. Wilson, Ph. D., Neuropharm. Tr.; Pittsburgh, Pa. (8352)

2998. The Action of Cerebral Serotonin in Man.

Amedeo S. Marrazzi, M.D., Dir. Research Lab. in Neuropsychiat.; Norman Uddstrom, M.D., Attend. Neurosurg.; E. Ross Hart, Ph. D., Ch. Div. Neurophy. and Neuropharm.; Eugene L. Youngue, M.D., Ch. Neur. Serv.; Pittsburgh, Pa. (8353)

2999. Correlation of Brain Metabolism, Chemistry and Function at the Synapse.

Amedeo S. Marrazzi, M.D., Dir. Research Lab. in Neuropsychiat.; Melvyn I. Gluckman, Ph.D., Neuropharm.; Pittsburgh, Pa. (8354)

3000. Comparison of the Response to Chemical Inhibitors of Two Varieties of Cerebral Synapses.

Amedeo S. Marrazzi, M.D., Dir. Research Lab. in Neuropschiat.; José M. Rodriguez, M.D., Neuropharm. Tr.; E. Ross Hart, Ph. D., Ch. Div. Neurophy. and Neurophar.; Pittsburgh, Pa. (8355)

3001. A Neurochemical Basis for the Bioassay of Anti-Epileptics.

E. Ross Hart, Ph. D., Ch. Div. Neurophy. and Neuropharm.; Amedeo S. Marrazzi, M.D., Dir. Research Lab. in Neuropsychiat.; Pittsburgh, Pa. (8356)

3002. An Oxidizing Property of Schizophrenic Blood.

Melvyn I. Gluckman, Ph. D., Neuropharm.; Amedeo S. Marrazzi, M.D., Dir. Research Lab. in Neuropsychiat.; Pittsburgh, Pa. (8357)

3003. The Reversal of Enzymatic Poisoning Produced by Iproniazid in the Brain.

Melvyn I. Gluckman, Ph. D., Neuropharm.; Amedeo S. Marazzi, M.D., Dir. Research Lab. in Neuropsychiat.; Pittsburgh, Pa. (8358)

3004. The Role in Cerebral Function of Gamma-Aminobutyric Acid, a Natural Brain Metabolite.

Amedeo S. Marrazzi, M.D., Dir. Research Lab. in Neuropsychiat.; E. Ross Hart, Ph. D., Ch. Div. Neurophy. and Neuropharm.; José M. Rodriguez, M.D., Neuropharm. Tr.; Pittsburgh, Pa. (8359)

3005. An Evaluation of A Central Component of Digitalis Action on the Vagus.

P. L. McLain, M.D., Prof. Phy. and Pharm., Chm. Dept., Univ of Pittsburgh; T. F. Redick, Ph. D., Asst. Prof. Pharm., Univ. of Pittsburgh; E. Ross Hart, Ph. D., Ch. Div. Neurophy. and Neuropharm., Research Lab. in Neuropsychiat., VAH; Amedeo S. Marrazzi, M.D., Dir. Research Lab. in Neuropsychiat.; Pittsburgh, Pa. (11032)

3006. Cerebral Action of Chemicals and Drugs in the Unanesthetized Animal.

E. Ross Hart, Ph. D., Ch. Div. Neurophy. Neuropharm.; Amedeo S. Marrazzi, M.D., Dir. Research Lab. in Neuropsychiat.; Thomas O. Wilson, Ph. D., Neurochem. Tr.; Thomas M. Gilfoil, Ph. D., Neuropharm. Tr.; Pittsburgh, Pa. (11033)

3007. The Cerebral Therapeutic and Toxic Synaptic Action of "Antidepressants."

Amedeo S. Marrazzi, M.D., Dir. Research Lab. in Neuropsychiat.; E. Ross Hart, Ph. D., Ch. Div. Neurophy. and Neuropharm.; T. M. Gilfoil, Ph. D., Neuropharm. Tr.; Melvyn I. Gluckman, Ph. D., Neuropharm.; Pittsburgh, Pa. (11036)

3008. Clinical and Experimental Evaluation of Photic Stimulation in Neuropsychiatric Problems.

Chaskiel C. Grossman, M.D., Cons. Electroencepha.; Richard N. Hanna, EEG Tech.; Walter M. Crawford, Electron. Tech.; Pittsburgh (Leech Farm Rd.), Pa. (7000)

3009. Photic Stimulation in Insulin Coma.

Chaskiel C. Grossman, M.D., Cons. Electroencepha.; Richard N. Hanna, EEG Tech.; Walter M. Crawford, Electron. Tech.; Pittsburgh (Leech Farm Rd.), Pa. (7001)

3010. Attitudes and Opinions of Patients Toward Psychological and Sociological Aspects of Patient Discharge Quarters Program.

Frances Shively, M.S.W., Asst. Ch. Soc. Worker for Research; Pittsburgh (Leech Farm Rd.), Pa. (7009)

3011. Factors Associated With Success or Failure of Psychiatric Patients on Trial Visit (The Patient, His Family and the Hospital—A Study of Three Elements in the Trial Visit Experience. Part I—The Characteristics of the Trial Visit Patient).

Frances Shively, M.S.W., Asst. Ch. Soc. Worker Res.; Samuel Nadler, M.S.W., Asst. Ch. Soc. Worker Research, Pittsburgh (Leech Farm Rd.), Pa. (7010)

3012. Inventory of Religious Attitudes.

Everett I. Campbell, Ph. D., Research Asst. (Protestant Chap.); Walter E. Reifsnyder, Ph. D., Protestant Chap.; Pittsburgh (Leech Farm Rd.), Pa. (7012)

3013. The Nurse-Patient Relationship and the Healing Process.

J. Frank Whiting, Ph. D., Research Psychol.; Marian A. Murray, R.N., M. Litt., Research Nurse; Jeanne E. Blumberg, R.N., M. Sc., Research Nurse; Pittsburgh (Leech Farm Rd.), Pa. (7016)

3014. Case Load Activity Analysis.

Frances Shively, M.S.W., Asst. Ch. SW for Research; Shirley A. Butler, M.S.W., Super. SW; James J. Williamson, M.S.W., Clin. SW; Dave L. Lancaster, M.S.W., Clin. SW; Pittsburgh (Leech Farm Rd.), Pa. (7018)

3015. The Effect of Unrecognized Emotional Threat Upon the Acquisition of a Perceptual Discrimination.

Harriet Hollander, M.S., Psychol. Tr.; Pittsburgh (Leech Farm Rd.), Pa. (7021)

3016. Organic Schizophrenic and Control Group Comparison of the Spiral Aftereffect, Its Direction and Duration.

David G. Berger, Ph. D., Cons. Psychol., VAH, Perry Point, Md.; Richard R. Everson, Ph. D., Clin. Psychol., VAH, Pittsburgh (Leech Farm Rd.), Pa.; Louis Rutledge, Ph. D., Cons. Psychol., VAH, Denver, Colo. (7023)

3017. Levels of Symbolic Response and the Thought Process.

J. Frank Whiting, Ph. D., Research Psychol., VAH; Roy Hamlin, Ph. D., Prof. of Psychol., Univ. of Pittsburgh; Pittsburgh (Leech Farm Rd.), Pa. (10438)

3018. A Statistical and Theoretical Analysis of Q-Methodology.

J. Frank Whiting, Ph. D., Research Psychol., VAH; Grace French, Ph. D., Asst. Prof., Dept. of Psychol., Univ. of Pittsburgh; Pittsburgh (Leech Farm Rd.), Pa. (10439)

3019. Etiology of Patients' Illness as Described by Patients' Relatives in First Interview After Hospitalization.

Harry G. Foreman, M.S.W., Casework Super.; Alexander A. Hawkins, M.S.W., Clin. Soc. Worker; George J. McChesney, M.S.W., Clin. Soc. Worker; Harriet Kessler, M.S.W., Clin. Soc. Worker; Samuel Nadler, M.S.W., Asst. Ch. Soc. Worker for Research; Pittsburgh (Leech Farm Rd.), Pa. (10440)

3020. The Patient, His Family and the Hospital—A Study of Three Elements in the Trial Visit Experience, Part II—The Trial Visit Experience.

Samuel Nadler, M.S.W., Asst. Ch. Soc. Worker for Research; Pittsburgh (Leech Farm Rd.), Pa. (10441)

3021. Flexibility in Mathematical Problem-solving and Patient Progress in Psychiatric Treatment.

Richard Miller, Ph. D., Super. Clin. Psychol.; J. Frank Whiting, Ph. D., Research Psychol.; Pittsburgh (Leech Farm Rd.), Pa. (10432)

3022. The Performance of a Hospitalized Neuropsychiatric Sample on the Edwards Personal Preference Schedule.

Joseph Newman, Ph. D., Ch. Clin. Psychol., VAH; George J. Wischner, Ph. D., Cons., VAH, Prof. Psychol., Univ. Pittsburgh; Pittsburgh (Univ. Dr.), Pa. (11081)

3023. Communication Problems in Hospitals: I. A Study of Job Efficiency and Job Satisfaction.

Joseph Newman, Ph. D., Ch. Clin. Psychol., VAH; Jack Matthews, Ph. D., Cons., Prof. Speech, Univ. Pittsburgh; Pittsburgh (Univ. Dr.), Pa. (11082)

3024. Age Differences in a Series of Prolonged Eyeblink Conditioning Trials.

Joseph Newman, Ph. D., Ch. Clin. Psychol., VAH; Harry W. Braun, Ph. D., Cons., Prof. Psychol., Univ. Pittsburgh; Richard Geiselhard, M.S., Research Asst., Psychol. Dept., Univ. Pittsburgh; Lloyd E. Homme, Ph. D., Prof. Psychol., Univ. Pittsburgh; Pittsburgh (Univ. Dr.), Pa. (11083)

3025. The Effect of the Withdrawal from Tranquilizing Drugs on Visual-Spatial Stimulus Generalization in Chronic Brain Damaged Subjects.

Joseph Newman, Ph. D., Ch. Clin. Psychol., VAH; Henry W. Barns, M.S., Research Asst., Psychol. Dept., Univ. Pittsburgh; Harry W. Braun, Ph. D., Cons., VAH, Prof. Psychol., Univ. Pittsburgh; Pittsburgh (Univ. Dr.), Pa. (11084)

3026. Prognostic Factors in Electroconvulsive Therapy: An Interdisciplinary Evaluation.

Andrew Davis, M.D., Ch. Neuropsychiat. Serv.; Jacob Silverberg, Ph. D., Asst. Ch. Clin. Psychol. Dept.; John King, Ch. Soc. Serv.; Richmond, Va. (7236)

3027. Preliminary Investigation of Techniques for Evaluation of Need Affiliation.

Richard Carrera, Psychol. Tr.; Richmond, Va. (7241)

3028. Behavioral Changes in Psychiatric Patients Following Sensory Deprivation.

Robert G. Gibby, Ph. D., Ch. Clin. Psychol.; William L. Dunn, Jr., Ph. D., Staff, Clin. Psychol.; Henry Adams, Ph. D., Research Psychol.; Richmond, Va. (7242)

3029. Reactions of Depressed Neuropsychiatric Patients to Imipramine (G 22,355).

Andrew Davis, M.D., Ch. Neuropsychiat. Serv.; George I. Meyer, M.D., Assist. Ch. Neuropsychiat. Serv.; Walter Draper, M.D., Resident, Neuropsychiat. Serv.; Henry B. Adams, Ph. D., Research, Clin. Psychol.; Richmond, Va. (9895)

3030. The Perceptional Discrimination Among Schizophrenic Subjects.

Richard Dunham, Research Psychol. Stud.; Richmond, Va. (9896)

3031. The Prediction of Responses to Sensory Deprivation.

Robert G. Gibby, Ph. D., Ch. Clin. Psychol.; William L. Dunn, Jr., Ph. D., Staff, Clin. Psychol.; Henry Adams, Ph. D., Research Psychol.; Richmond, Va. (9897)

3032. Rorschach Changes Following Sensory Deprivation.

Robert G. Gibby, Ph. D., Chief Clin. Psychol.; William L. Dunn, Jr., Ph. D., Staff, Clin. Psychol.; Henry Adams, Ph. D., Research Psychol.; Richmond, Va. (9899)

3033. The Response of High Anxiety Patients vs. Low Anxiety Patients to Sensory Deprivation (as Measured by Behavioral Observation).

Robert G. Gibby, Ph. D., Ch. Clin. Psychol.; William L. Dunn, Jr., Ph. D., Staff, Clin. Psychol.; Henry Adams, Ph. D., Research Psychol.; Richmond, Va. (9900)

3034. The Response of High Anxiety Patients vs. Low Anxiety Patients to Sensory Deprivation (as Measured by the Welsh Scale).

Robert G. Gibby, Ph. D., Ch. Clin. Psychol.; William L. Dunn, Jr., Ph. D., Staff, Clin. Psychol.; Henry Adams, Ph. D., Research Psychol.; Richmond, Va. (9901)

3035. Personality Characteristics of Terminators and Stayers in Sensory Deprivation.

Robert G. Gibby, Ph. D., Ch. Clin. Psychol.; William L. Dunn, Jr., Ph. D., Staff, Clin. Psychol.; Henry Adams, Ph. D., Research Psychol.; Richmond, Va. (9902)

3036. Minnesota Multiphasic Changes Following Sensory Deprivation.

Robert G. Gibby, Ph. D., Ch. Clin. Psychol.; William L. Dunn, Jr., Ph. D., Staff, Clin. Psychol.; Henry Adams, Ph. D., Research Psychol.; Theodore Heinrichs, Psychol. Intern; Richmond, Va. (9903)

3037. Ward Behavior Following Sensory Deprivation.

Robert G. Gibby, Ph. D., Ch. Clin. Psychol.; William L. Dunn, Jr., Ph. D., Staff, Clin. Psychol.; Henry Adams, Ph. D., Research Psychol.; Richmond, Va. (9904)

3038. Changes in Self Perception Following the Interjection of a Stimulus During Sensory Deprivation.

Robert G. Gibby, Ph. D., Ch. Clin. Psychol.; William L. Dunn, Jr., Ph. D., Staff, Clin. Psychol.; Henry Adams, Ph. D., Research Psychol.; Richmond, Va. (9905)

3039. The Relation of Electroencephalographic Slowing to the Impairment of Selected Intellective Abilities.

C. David Jenkins, Dept. of Psychol., Univ. of North Carolina, Chapel Hill, N.C.; Richmond, Va. (9906)

3040. Psychiatric Symptoms Associated with Cushing's Disease.

George K. Brooks, Jr., M.D., Attend. Phys. Psychiat.; Richmond, Va. (9907)

3041. An Intensive Study of a Group of Individuals Diagnosed as "Psychopathic Personalities".

Andrew Davis, M.D., Ch. Neuropsychiat. Serv., VAH; P. H. Drewry, M.D., Prof. of Psychiat., Med. Coll. of Va.; Jacob Silverberg, Ph. D., Asst. Ch. Clin. Psychol. Dept., VAH; Richmond, Va. (9908)

3042. Development of Methods for the Quantitative Determination of Phenothiazine Derivatives in Blood and Urine, Utilizing the Visible Spectrum Range.

David O. Rosbash, Ph. D., Biochem. Clin. Lab.; Roanoke, Va. (7245)

3043. The Usefulness of the Akerfeldt's Reaction in Screening Schizophrenic Patients.

David O. Rosbash, Ph. D., Biochem. Clin. Lab.; Roanoke, Va. (7246)

3044. Comparison of Pre-Hospital Employment of 1866 NP Patients at VAH, Roanoke, Va., with General Population of South Central States.

LeBaron Moseley, Ph. D., Counsel. Psychol.; Roanoke, Va. (7248)

3045. Statistical Investigation of Parental Deprivation and Home Milieu of 400 Schizophrenics.

Peter Illberg, M.D., Psychiat.; Roanoke, Va. (7249)

3046. Configural Analysis of MMPI Scores for the Discrimination of Female Schizophrenic Patients.

William J. Eichman, Ph. D., Psychol.; Roanoke, Va. (7250)

3047. Work Curves with Verbal Reasoning Items in Schizophrenic and Non-Schizophrenic NP Patients.

William J. Eichman, Ph. D., Psychol.; Roanoke, Va. (7251)

3048. Interview, MMPI and Bender-Gestalt Behavior of Psychiatric Patients Who Show a "Slowing-Down" Effect on Work Curves.

William J. Eichman, Ph. D., Psychol.; Roanoke, Va. (7252)

3049. Factor Analysis of Bender-Gestalt Performance and Relationships with Other Performances.

William J. Eichman, Ph. D., Psychol.; Roanoke, Va. (7253)

3050. Reactive Inhibition in Schizophrenic Patients.
William J. Eichman, Ph. D., Psychol.; Roanoke, Va. (7254)

3051. Factor Analysis of 17 MMPI Scales With Female NP Subjects.
William J. Eichman, Ph. D., Psychol.; Roanoke, Va. (7255)

3052. An Investigation of the Effects of Withdrawal of Chlorpromazine on Psychotic Symptomatology.
Earl G. Guyer, Ph. D., Psychol.; Roy A. Eck, Ph. D., Psychol.; Roanoke, Va. (7256)

3053. A Comparative Study of Elopers and Non-Elopers.
Walter B. Coleman, Soc. Worker; Roanoke, Va. (7257)

3054. The Copper and Non-Hemoglobinous Iron Content of Sera From Psychotic Patients. The Effect of the Tranquillizing Drugs on the Concentration of These Elements in the Sera of Psychotic Patients.
David O. Rosbash, Ph. D., Biochem., Clin. Lab.; Roanoke, Va. (7259)

3055. Comparison of Good and Poor Premorbid Schizophrenics on Apperceptive Tasks.
Robert W. Balentine, Psychol. Tr.; Roanoke, Va. (10605)

3056. Premorbid Adjustment in Schizophrenia and Its Relation to Test Behavior on the Edwards Personal Preference Schedule (EPPS).
Marvin H. Backer, Psychol. Tr.; Roanoke, Va. (11134)

3057. Selection and Assessment of Psychiatric Aides.
Lewis Aumack, Ph. D., Dir. Psychol. Serv.; Roseburg, Ore. (7263)

3058. The Measurement and Prediction of Behavioral Changes in Hospitalized Psychiatric Patients.
Lewis Aumack, Ph. D., Dir. Psychol. Serv.; Roseburg, Ore. (7268)

3059. A Social-Psychological Analysis of a VA Neuropsychiatric Hospital.
Lewis Aumack, Ph. D., Ch. Psychol. Serv., VAH; Abraham Luchins, Ph. D., Cons. VAH, Assoc. Prof., Psychol. Dept., Univ. of Oregon; Roseburg, Oreg. (7269)

3060. Analysis of Social Structure of a Psychiatric Ward.
Harold R. Dickman, Ph. D., Research Clin. Psychol.; Roseburg, Oreg. (8742)

3061. The Vocational Interest Profile Patterns of Schizophrenic Patients.
Paul Metzger, Ph. D., Counsel. Psychol.; Roseburg, Oreg. (8743)

3062. A Study of Behavior Settings for a Mental Hospital Analysis.
David W. Rose, Psychol. Tr.; Roseburg, Oreg. (8744)

3063. A Study of the Attitudes of Supervisors in the Industrial Therapy Program.

Hugh Fordyce, Couns. Psychol. Tr.; Harold R. Dickman, Ph. D., Research Psychol.; Roseburg, Oreg. (10229)

3064. Study of Attitudes of a Small Community Toward an NP Hospital.

Harold R. Dickman, Ph. D., Research Psychol.; Roger McKenzie, SWS; Roseburg, Oreg. (10230)

3065. Analysis of 24-Hour Report.

David Rose, Clin. Psychol. Tr.; Harold R. Dickman, Ph. D., Research Psychol.; Roseburg, Oreg. (10231)

3066. A Descriptive Analysis of Patient Population.

Lewis Aumack, Ph. D., Ch. Psychol. Serv.; Gale Wegner, M.S.W., Ch. SWS; Roseburg, Oreg. (10232)

3067. Factors Related to the Placement of Neuropsychiatric Patients in Family Care Homes.

Nora Y. Hawes, Psychiat. Eval. Proj. Soc. Worker; St. Cloud, Minn. (8604)

3068. Purpose: To Study the Effects of Chlorpromazine on the Learning and Retention of Verbal Material.

Norris D. Vestre, Clin. Psychol. Tr.; St. Cloud, Minn. (8606)

3069. A Validation Study of the Graham-Kendall.

Philip H. Chase, Ph. D., Ch. Psychol. Serv.; Donald P. Hartmann, Clin. Psychol. Tr.; St. Cloud, Minn. (10653)

3070. Minnesota Multiphasic Personality Inventory Profiles Associated with Certain Admission Symptoms in Psychiatric Patients.

Stephen G. Granger, Counsel. Psychol.; St. Cloud, Minn. (10654)

3071. An Attempt to Develop an Index of Potential for Hostile Acting Out.

Philip H. Chase, Ch. Psychol.; St. Cloud, Minn. (10655)

3072. Insanity as a Defense to Crime in the State of Missouri.

Bernard A. Cruvant, M.D., Ch. Neuropsychiat. Serv.; St. Louis, Mo. (7708)

3073. The Use of Psychological Factors in Predicting Response to Surgery in Peptic Ulcer Patients.

Bernard A. Cruvant, M.D., Ch. Neuropsychiat. Serv.; Vito R. Buzzotta, Ph. D., Research Psychol.; Leonard Saxon, M.A., Research Asst.; St. Louis, Mo. (7710)

3074. Reliability of Scoring the Rorschach Test.

Wilbur K. Rigby, Ph. D., Ch. Clin. Psychol. Sect.; St. Louis, Mo. (7711)

3075. A Follow-Up Study of Veterans With Previous Child Guidance Clinical Referrals.

Bernard A. Cruvant, M.D., Ch. Neuropsych. Serv., VAH; Patricia O'Neal, M.D., Wash. Univ. Sch. Med.; Lee N. Robins, Ph. D., Wash. Univ. Sch. Med.; St. Louis, Mo. (9719)

3076. Prediction of Length and Outcome of Psychotherapy by Means of Psychological Tests.

Donald R. Stieper, Ph. D., Clin. Psychol., Ment. Hygiene Clin.; Daniel N. Wiener, Ph. D., Ch. Clin. Psychol., Ment. Hygiene Clin.; Phillip Warren, Clin. Psychol. Tr., Ment. Hygiene Clin.; David M. Wark, Clin. Psychol. Tr., Ment. Hygiene Clin.; St. Paul, Minn. (7730)

3077. Psychological Evaluation of Hearing Loss Compensation Cases.

Daniel N. Wiener, Ph. D., Ch. Clin. Psychol.; Frank M. Lassman, M.D., Cons., Audiology Serv., OP Med. Clin.; David M. Wark, Clin. Psychol. Tr.; St. Paul, Minn. (7731)

3078. Prediction of Reactions to Drugs.

Daniel N. Wiener, Ph. D., Ch. Clin. Psychol. Serv., Ment. Hygiene Unit; Otto N. Raths, M.D., Ch. Ment. Hygiene Unit; St. Paul, Minn. (7734)

3079. Comparison of the Efficacy of Drug Therapy and Psychotherapy.

Floyd K. Garetz, M.D., Psychiat. Resident; Daniel N. Wiener, Ph. D., Ch. Clin. Psychol.; St. Paul, Minn. (7735)

3080. Tabular Study of Veterans Administration Mental Hygiene Clinic Population.

Donald R. Stieper, Ph. D., Clin. Psychol.; St. Paul, Minn. (7736)

3081. The Measurement of Values in a Psychotherapeutic Setting.

Daniel N. Wiener, Ph. D., Ch. Clin. Psychol. Serv., Ment. Hygiene Unit; Danuta Ehrlich, M.A., Tr. Clin. Psychol., Ment. Hygiene Unit; St. Paul, Minn. (7737)

3082. Capacity for Regression as a Predictive Measure in Psychotherapy.

Donald R. Stieper, Ph. D., Clin. Psychol.; St. Paul, Minn. (7738)

3083. Psychophysiological Response as a Measure of Anxiety-Reduction Due to Treatment.

Donald R. Stieper, Ph. D., Clin. Psychol.; John W. Nelson, Ph. D., Clin. Psychol.; St. Paul, Minn. (7739)

3084. Perceptual Correlates of Reality Testing in Psychopathology.

Donald R. Stieper, Ph. D., Clin. Psychol.; Lyle H. Wharton, Ph. D., Clin. Psychol.; Phillip Warren, Clin. Psychol. Tr.; St. Paul, Minn. (7741)

3985. Patient and Staff Recreational Preferences as Predictors of Actual Participation.

William E. Morris, Ph. D., Coord. Psychiat. Eval. Proj.; Milton B. Jensen, Ph. D., Ch. Psychol. Serv.; Russell G. Ramage, Ch. Recreation Serv.; Garret H. Yanagi, Psychol. Tr.; Salisbury, N.C. (7388)

3086. Psychological Test Responses of Tranquilized and Non-Tranquilized NP Hospital Patients.

Milton B. Jensen, Ph. D., Ch. Psychol. Serv.; Salisbury, N.C. (7391)

3087. A Comparison of Direct *vs.* Indirect Psychological Intervention on Treatment Outcome with Chronic NP Patients.

William F. Gwynn, Clin. Psychol. Intern; David A. Lord, M.A., Clin. Psychol. Intern; Salisbury, N.C. (8732)

3088. The Relationship of Guessing Behavior on a Paper-and-Pencil Test With Personality Adjustment.

Dale S. Higbee, Ph. D., Clin. Psychol.; Salisbury, N.C. (8733)

3089. Music Preference and Personality Adjustment.

Dale S. Higbee, Ph. D., Clin. Psychol.; Salisbury, N.C. (8734)

3090. The Effect of Knowledge of Results on the Behavior of Chronic Schizophrenics in Group Therapy.

William W. Lothrop, Clin. Psychol. Intern.; Salisbury, N.C. (8736)

3091. The Effects of Stelazine ((Smith, Kline & French's brand of 10-[3-(1-methyl-4-piperazinyl)-propyl]-2-trifluoromethyl penothiazine dihydrochloride (trifluoperazine dihydrochloride)) on Extremely Agitated and Extremely Inert Schizophrenic Patients.

William T. Sharp, M.D., Asst. Dir. Prof. Serv.; Milton B. Jensen, Ph. D., Ch. Psychol. Serv.; Dale S. Higbee, Ph. D., Clin. Psychol.; Salisbury, N.C. (8737)

3092. Direct, Indirect and No Psychological Treatment of Women NP Hospital Patients.

Milton B. Jensen, Ph. D., Ch. Psychol. Serv.; Charles L. Walter, Clin. Psychol. Intern.; Zachery Mayberger, Clin. Psychol. Intern.; Garrett H. Yanagi, Clin. Psychol. Intern.; Salisbury, N.C. (10156)

3093. Recreation Participation as an Index of Psychopathology and Length of Hospital Stay.

William E. Morris, Ph. D., Coord. Psychiat. Eval. Proj.; Salisbury, N.C. (10157)

3094. A Factor-Analyzed Scale of Anxiety and EEG Variables in Psychiatric Patients.

Kenneth A. Kooi, M.D., Dir. EEG Lab.; Reed S. Boswell, Ph. D., Research Psychol.; Jesse L. Bennett, M.D., Psychiat.; Salt Lake City, Utah. (7317)

3095. Studies of Postpartum Psychoses.

Eugene L. Bliss, M.D., Attend. Psychiat.; Charles D. West, M.D., Asst. Dir. Prof. Serv. for Research; Salt Lake City, Utah. (7329)

3096. Study of Hallucinations.

Eugene L. Bliss, M.D., Attend. Psychiat., VAH, Assoc. Prof. of Psychiat., Univ. of Utah; Mark P. Graeber, M.D., Ch. Psychiat. Serv., VAH; Salt Lake City, Utah. (7331)

3097. A Study of Gonadal Function in Patients with Mental Illiness.

Charles D. West, M.D., Asst. Dir. Prof. Serv. for Research, VAH; Eugene L. Bliss, M.D., Attend. Psychiat, VAH, Assoc. Prof. of Psychiat., Univ. of Utah; Salt Lake City, Utah. (7333)

3098. A Study of Thyroid and Adrenal Function in Patients with Acute Depression.

Charles D. West, M.D., Asst. Dir. Prof. Serv. for Research, VAH; Eugene L. Bliss, M.D., Attend. Psychiat., VAH, Assoc. Prof. of Psychiat., Univ. of Utah; Salt Lake City, Utah. (7334)

3099. Rehabilitation and Disposition of Chronically Hospitalized Schizophrenic Patients.

Robert B. Ellsworth, Ph. D., Research Psychol.; Beverly T. Mead, M.D., Staff Psychiat.; William H. Clayton, M.S.W., Proj. Soc. Worker, Psychiat. Eval. Proj.; Salt Lake City, Utah. (7336)

3100. A Study of Changes in Psychological Test Responses of a Group of Chronic Alcoholics in Treatment.

John O. Grimmett, Ph. D., Clin. Psychol.; Salt Lake City, Utah. (7338)

3101. Discrepancies Between Some Theoretically Assumed Antecedents of Emotional Disease and What Ill Persons Declare About Their Past Personal Histories.

H. B. Hovey, Ph. D., Clin. Psychol.; Salt Lake City, Utah. (7339)

3102. Social Time Perception in Hospitalized Chronic Brain Damaged Persons.

Virginia P. Frobes, M.A., Psychol. Tr.; Madison Thomas, M.D., Ch. Neur. Serv.; Salt Lake City, Utah. (7340)

3103. Special Therapy Technique for Chronic Schizophrenics.

Beverley T. Mead, M.D., Staff Psychiat.; Robert B. Ellsworth, Ph. D., Ch. Psychiat. Eval. Proj.; Salt Lake City, Utah. (7341)

3104. Treatment of Placid Deteriorated Schizophrenics with Combined Ephedrine and Chlorpromazine.

Beverley T. Mead, M.D., Staff Psychiat.; Robert B. Ellsworth, Ph. D., Research Psychol.; John O. Grimmett, Ph. D., Clin. Psychol.; Salt Lake City, Utah. (7343)

3105. The Measurement of Improvement in Mental Illness.

Robert B. Ellsworth, Ph. D., Research Psychol.; William H. Clayton, M.S.W., Proj. Soc. Worker, Psychiat. Eval. Proj.; Salt Lake City, Utah. (7344)

3106. A Study of the Reactions of Patients' Relatives to Drug Treatment of Chronic Schizophrenics.

William H. Clayton, M.S.W., Proj. Soc. Worker, Psychiat. Eval. Proj.; Robert B. Ellsworth, Ph. D., Research Psychol., VAH; Lincoln D. Clark, M.D., Asst. Prof. Psychiat., Univ. of Utah; Salt Lake City, Utah. (7345)

3107. Relationships between Psychiatric and Control Groups on Personal History Items as Declared through a Self-interview Technique.

Henry B. Hovey, Ph. D., Clin. Psychol.; Salt Lake City, Utah. (7346)

3108. A Critical Incident Study of Why Patients Are Admitted to a Neuropsychiatric Hospital.

Carroll A. Whitmer, Ph. D., Ch. Psychol. Serv.; Glen Conover, M.S.W., Ch. Soc. Work Serv.; Salt Lake City, Utah. (7347)

3109. Study of Vascular Changes in Senile Psychoses.

Terence H. Cochran, M.D., Ch. Lab. Serv.; Victor Kassel, M.D., Ch. Geriatric Unit; Salt Lake City, Utah. (7371)

3110. Studies of Schizophrenia: Metabolic Abnormalities.

Melvin J. Gortatowski, Ph. D., Biochem.; Salt Lake City, Utah. (10507)

3111. The Bender-Gestalt and the Picture Completion and Picture Arrangement Subtests on the Wechsler Adult Intelligence Scale in the Diagnosis of Brain Pathology.

Jack Blumenkrantz, Ph. D., Asst. Ch. Psychol. Sect.; San Francisco, Calif. (7457)

3112. An Empirical Study of the Relation of Physical Disease to Body-Object Cathexis.

Jerome Fisher, Ph. D., Ch. Psychol. Sect.; San Francisco, Calif. (7458)

3113. Evaluation of the "Therapeutic Community" Approach to the Treatment of Psychiatric Disorders.

Jack Blumenkrantz, Ph. D., Asst. Ch. Psychol. Sect.; San Francisco, Calif. (7459)

3114. An Empirical Study to Determine the Diagnostic Potential of the Sentence Completion Test.

Jack Blumenkrantz, Ph. D., Asst. Ch. Psychol. Sect.; San Francisco, Calif. (7461)

3115. Effects of Amytol on the Spiral After-Effect.

Emily Philbrick, Tr. Psychol. Sect.; San Francisco, Calif. (7462)

3116. Perception of After-Effects in Brain Pathology.

Emily Philbrick, Ph. D., Tr. Psychol. Sect.; San Francisco, Calif. (7463)

3117. An Empirical Investigation of a Test Battery for the Diagnoses of Organic Brain Pathology.

Jack Blumenkrantz, Ph. D., Asst. Ch. Psychol. Sect.; Leonard Blank, Ph. D., Tr. Psychol. Sect.; Nicholas Nichols, Tr. Psychol. Sect.; San Francisco, Calif. (7464)

3118. Accuracy of Estimates of Height of Women as a Measure of Attitudes Towards Women.

Jack Blumenkrantz, Ph. D., Asst. Ch. Psychol. Sect.; San Francisco, Calif. (7466)

3119. Experimental Study of Freudian Symbolism.

Jerome Fisher, Ph. D., Ch. Psychol. Sect.; Rudolph Moos, Tr. Psychol. Sect.; San Francisco, Calif. (7467)

3120. Levels of Measurement.

Rudolf H. Moos, Clin. Psychol. Tr., VAH; Joseph C. Speisman, Ph. D., Asst. Prof. Psychol., Univ. of California; San Francisco, Calif. (8494)

3121. Group Therapy on an Orthopedic Ward.

Richard M. Suinn, Clin. Psychol. Tr.; Stanley H. Teitelbaum, Clin. Psychol. Tr.; San Francisco, Calif. (8495)

3122. The Cornell Medical Index as an Admission Screening Instrument.

Jack Blumenkrantz, Ph. D., Asst. Ch. Psychol.; Jerome Fisher, Ph. D., Ch. Psychol. Sect.; Roland Levy, M.D., Ch. Neuropsychiat. Serv.; San Francisco, Calif. (9778)

3123. An Investigation of Some Phychological Test Behavior Characteristic of Persons Classified by Certain Minnesota Multiphasic Personality Inventory Profile Configurations.

Wilbert E. Fordyce, Ph. D., Clin. Psychol., VAH; Leo Levy, Ph. D., Clin. Psychol. Student, Univ. of Washington; James Campbell, M.A., Clin. Psychol. Tr., Univ. of Washington; Seattle, Wash. (7609)

3124. Relationships Between Trehub's "Ego-Disjunctive Scale" and Objectively Derived Estimates of Ego Integration From the Minnesota Multiphasic Personality Inventory.

Wilbert E. Fordyce, Ph. D., Clin. Psychol.; William R. Crow, M.S., Clin. Psychol. Tr.; Seattle, Wash. (7610)

3125. An Investigation of the Human Figure Drawings of Patient Groups Differentiated by Means of Their Minnesota Multiphasic Personality Inventory Profiles.

Wilbert E. Fordyce, Ph. D., Clin. Psychol., VAH; Leo Levy, M.A., Clin. Psychol. Stu., Univ. Washington; Seattle, Wash. (7611)

3126. The Ackerfeldt and Abood Tests (Phenylendiamine Test for Schizophrenic), An Evaluation (Part II).

Merlin H. Johnson, M.D., Ch. Psychiat.; Wilbert E. Fordyce, Ph. D., Clin. Psychol., VAH; Minoru Masuda, Ph. D., Research Instr. Psychiat., Univ. of Washington; Theodore L. Dorpat, M.D., Attend. VAH, Instr. Psychiat., Univ. of Washington; Seattle, Wash. (7612)

3127. Quantification of Clinical Assessment by Q-Array Management of Variables of Social-Desirability and Health Sickness in a Multidimentional Structured Q-Array.

William S. Kogan, Ph. D., Ch. Clin. Psychol.; Wilbert E. Fordyce, Ph. D., Clin. Psychol.; Seattle, Wash. (7613)

3128. Quantification of Clinical Assessment by Q-Array Testing a Series of Psychosomatic Hypothesis.

William S. Kogan, Ph. D., Ch. Clin. Psychol., VAH; Thomas Holmes, M.D., Attend., VAH, Prof. Psychiat., Univ. of Washington; Theodore Dorpat, M.D., Attend., VAH, Asst. Prof. Psychiat., Univ. of Washington; Seattle, Wash. (7614)

3129. Application of Free Operant Conditioning to the Study of the Effect of Tranquilizers on Psychiatric Patients.

Merlin H. Johnson, M.D., Ch. Psychiat. and Neur.; Helen J. Clark, M.S., Research Asst. in Psychol.; William S. Kogan, Ph. D., Ch. Clin. Psychol., VAH; Sidney Bijou, Ph. D., Prof. Psychol., Univ. of Washington; Seattle, Wash. (7625)

3130. Hostility Below Levels of Awareness.

William S. Kogan, Ph. D., Ch. Clin. Psychol.; Merlin H. Johnson, M.D., Ch. Neuropsychiat. Serv.; Charles B. Schultz, Clin. Psychol. Research Asst.; Seattle, Wash. (9237)

3131. A Study of the Duration and Nature of Treatment Provided for Psychiatric Patients.

Maryonda Scher, M.D., Staff Phys. Psychiat; Seattle, Wash. (9243)

3132. Clinical Investigation of Intramuscular Perphenazine (Trilifon).

Ernest Q. King, M.D., Ph. D., Staff Phys.; Sepulveda, Calif. (7524)

3133. Clinical Investigation of "Deanol" (Deaner).

Ernest Q. King, M.D., Ph. D., Phys.; Sepulveda, Calif. (7525)

3134. Clinical Investigation of Deinex (Codeine-Resin Compound).

Ernest Q. King, M.D., Ph. D., Staff Phys.; Sepulveda, Calif. (7527)

3135. Interpersonal Perception With Special Emphasis on Factors Operating in the Formation and Reporting of Clinical Impressions of Psychiatric Patients.

F. Harold Giedt, Ph. D., Ch. Psychol. Research Serv.; Sepulveda, Calif. (7535)

3136. Application of Catell's Battery of Experimental Objective Psychological Tests to Psychiatric Patients.

F. Harold Giedt, Ph. D., Ch. Psychol. Research Serv.; Sepulveda, Calif. (7536)

3137. Cortical Patterns of Psychological Functions as Indicated by EEG Tracings.

Irving M. Goldstein, Ph. D., Staff Clin. Psychol.; Sepulveda, Calif. (7540)

3138. Attitudes and Opinions of Psychiatric Ward Treatment Team Members.

F. Harold Giedt, Ph. D., Ch. Psychol. Research Serv.; Sepulveda, Calif. (7543)

3139. Effects of Lesions in the Rhinencephalon on Behavior.

C. D. Clemente, Ph. D., Con. Neuroanat. & Neurophy.; Sepulvada, Calif. (7547)

3140. Perceptual Vigilance and Defense to Oral Concepts in Ulcer and Obese Patients.

Channing Orbach, M.A., Clin. Psychol. Tr.; Sepulveda, Calif. (7552)

3141. Some Psychological Test Indicators of Length of Hospital Stay of Psychiatric Patients.

F. Harold Giedt, Ph. D., Ch. Psychol. Research Serv.; Sepulveda, Calif. (7561)

3142. An Application of a Modified Semantic Differential Scale to Some Problems in Clinical Research.

Marvin S. Beitner, Clin. Psychol. Tr.; Sepulveda, Calif. (7562)

3143. An Investigation of Schizophrenic Logic.

Jerry P. Nims, Clin. Psychol. Tr.; Sepulveda, Calif. (7563)

3144. An Investigation of Perceived Social Influence in the Neuropsychiatric Ward Structure: A Pilot Project.

J. H. Vitale, Ph. D., Ch. Clin. Psychol. Serv.; F. Harold Giedt, Ph. D., Ch. Psychol. Research Serv.; Sepulveda, Calif. (7567)

3145. Experimental Approach to Personality Evaluation Through Music.

Karol Fishler, Clin. Psychol. Tr.; Sepulveda, Calif. (8863)

3146. Psychological Time in Mental Illness.

Robert Kastenbaum, Clin. Psychol. Tr.; Sepulveda, Calif. (8864)

3147. Role of Sodium and Potassium Exchange in the Synapse in Mental Disease.

E. Q. King, M.D., Ph. D., Staff Phys.; John D. Stevens, M.D., Ward Psychiat.; Sepulveda, Calif. (10447)

3148. The Use of Oxyphencyclimine Hydrochloride (Daricom) in Psychiatric Patients.

John D. Stevens, M.D., Staff Psychiat.; Sepulveda, Calif. (10448)

3149. Clinical Investigation of Aminophenylpyridone.

Ernest Q. King, M.D., Ph. D., Staff Phys.; Sepulveda, Calif. (10449)

3150. Clinical Evaluation of Ditran (JB–329).

Harold Snow, M.D., Staff Psychiat., Act. Ch. Cont. Treatment Serv.; E. Q. King, M.D., Ph. D., Staff Phys.; Keith Ditman, M.D., Attend. Psychiat.; Karol Fishler, Ph. D., Clin. Psychol. Tr.; Sepulveda, Calif. (10450)

3151. Clinical Evaluation of Impramine Hydrochloride (Tofranil).

John D. Stevens, M.D., Staff Psychiat.; Sepulveda, Calif. (10451)

3152. Clinical Investigation 3,4,5 Trimethoxybenzoylglycine Diethylamide (Riker 548).

Ernest Q. King, M.D., Ph. D., Staff Phys.; Sepulveda, Calif. (10452)

3153. Clinical Investigation of the New Drug Beta-Phenylisopropyl Hydrazine (Catron).

Ernest Q. King, M.D., Ph. D., Staff Phys.; John D. Stevens, M.D., Staff Phys.; Sepulveda, Calif. (10453)

3154. Clinical Investigation of Trifluoperazine (Stellazine) An Anti-Psychotic Agent.

T. J. Nagy, M.D., Staff Psychiat.; Sepulveda, Calif. (10454)

3155. Mood Change Measured by Reaction to Musical Selections Associated with Administration of Experimental Drug JB 329.

Karol Fishler, Clin. Psychol. Intern; E. Q. King, M.D., Ph. D., Ward Phys.; H. L. Snow, M.D., Act. Ch. Cont. Treatment Serv., Sepulveda, Calif. (10455)

3156. The Influence of Brain Stem Reticular Stimulation on Conditioned Behavior.

B. Brown, Ph. D., Assoc. Clin. Prof. Pharm., Univ. of California at Los Angeles; E. Q. King, M.D., Phys., VAH; Sepulveda, Calif. (10456)

3157. Geriatrics Medical Patients: Social Factors Delaying Discharge.

K. R. Griffin, Soc. Serv. Tr.; Clement W. Matzen, Soc. Work Serv., Training Coord.; Sepulveda, Calif. (10457)

3158. Multiple Self Concepts as Effected by Mood States—A Validation Study.

Arthur Orzeck, Ph. D., Staff Clin. Psychol.; John H. Vitale, Ph. D., Ch. Clin. Psychol. Serv.; Sepulveda, Calif. (10458)

3159. Sodium Glucuronate in the Treatment of Excited Schizophrenic Patients.

J. D. Stevens, M.D., Ward Psychiat.; E. Q. King, Ph. D., Ward Phys.; Sepulveda, Calif. (10502)

3160. A Validation Study of Some Psychometric and Projective Constructs.

Frederick R. Fosmire, Ph. D., Clin. Psychol.; Sheridan, Wyo. (8824)

3161. Response to Life Threatening Situations by Emotionally Altered Rats.

Andrew Kerr, Jr., M.D., Asst. Ch. Med. Serv.; Syracuse, N.Y. (7770)

3162. A Study of the Physiological Effect in Certain Psychosometic Patients of Changes in Their Social Intersection Rates.

Edward L. Siegel, Ph. D., Asst. Ch. Psychol. Sect., VAH; John Mabry, Ph. D., Assoc. Prof. Med. Sociol., Univ. of Kentucky Sch. of Med.; Warren A. Mann, M.D., Asst. Prof. of Psychiat., State Univ. of New York Coll. of Med. in Syracuse; Seymour Furmen, M.D., Staff Psychiat., VAH; Syracuse, N.Y. (7809)

3163. Differences in Visual Recognition Under Conditions of Reduced Cues Between Various Types of Schizophrenic Patients.

Edward L. Siegel, Ph. D., Asst. Ch. Psychol. Sect.; Sidney Orgel, Ph. D., Staff Psychol.; Syracuse, N.Y. (7810)

3164. The Physiological Functioning of the Schizophrenic with Reference to the General Developmental Law of Differentiation and Hierarchic Integration.

Howard Friedman, Ph. D., Ch. Clin. Psychol.; Syracuse, N.Y. (8723)

3165. Psychiatric and Linguistic-Kinesic Study of Initial Interviews

Robert E. Pittencer, M.D., Asst. Prof. Psychiat., State Univ. of New York; William F. Knoff, M.D., Asst. Prof., Psychiat., State Univ. of New York; Ray L. Birdwhistell, Ph. D., Assoc. Prof. of Anthro., Univ. Buffalo; George L. Trager, Ph. D., Prof. of Anthro. and Linguistics, Univ. Buffalo; John J. Danehy, M.D., Act. Ch. Psychiat. Serv., VAH; Syracuse, N.Y. (8927)

3166. The Relationship Between Accuracy of Self-Role Perception and Level of Personality Differentiation and Hierarchic Integration.

Herbert Tothill, M.A., Psychol. Tr., VAH; Edward J. Murray, Ph. D., Cons. VAH, Asst. Prof. of Psychol., Syracuse Univ.; Edward L. Siegel, Ph. D., Asst. Ch. Psychol. Sect., VAH; Syracuse, N.Y. (9855)

3167. Studies of Reactivity of Autonomic Nervous System as Response to Stress in Various Personality Types.

Charles Rothstein, Ph. D., Clin. Psychol.; Togus, Me. (7850)

3168. IBM Coding System for Study of Psychiatric Patients.

Charles Rothstein, Ph. D., Clin. Psychol.; Togus, Maine. (7864)

3169. Research on Cultural Background of Hospitalized Veterans.

Paul P. Perez; Charles Rothstein; Togus, Me. (7865)

3170. An Evaluation of the Effects of Discontinuation of Chlorpromazine.

Charles Rothstein, Ph. D., Clin. Psychol.; Togus, Maine. (10532)

3171. Responsiveness of Chronic Hospitalized Psychotic and Nonpsychotic Groups to Several Classes of Feedback.

Walter J. Johannsen, Clin. Psychol. Tr.; Tomah, Wis. (7871)

3172. Cooperative VA Study on Cross-Validation of a *Job Preference Record* for Placing Patients in Hospital Industries.

Durand F. Jacobs, Ph. D., Ch. Psychol. Serv., VAH, Tomah, Wis.; Richard Fishbune, Coord., PMRS., VAH, Tomah, Wis.; Richard Filer, Ph. D., Ch. Domiciliary Pilot Study, VAC, Wood, Wis.; D. D. O'Connell, Ph. D., Ch. Voc. Couns. Serv., VAC, Wood, Wis.; George Baehr, Ph. D., Research Sect., VAH, Danville, Ill.; Charles Pfau, Couns. Psychol. Serv., VAH, Marion, Ind. (7873)

3173. Prediction of Response to Trial Visit in a Neuropsychiatric Population.

Vladimir Pishkin, Ph. D., Dir. Research Lab.; Frederick J. Bradshaw, Jr., M.D., Dir. Prof. Serv.; Tomah, Wis. (7874)

3174. Response Deviancy as Related to Degree of Schizophrenic Disorganization, Test Ambiguity, and Instructions.

John W. Giebink, Ph. D., Clin. Psychol.; Tomah, Wis. (9010)

3175. Questionnaire Survey of Problems in Rehabilitating the Mental Patient.

Durand F. Jacobs, Ph. D., Ch. Psychol. Serv., VAH; Norville M. Downie, Ph. D., Assoc. Prof. of Psychol., Purdue University; Tomah, Wis. (9011)

3176. Demographic Factors Affecting Response to Treatment, Length of Stay, and Type of Release from a Psychiatric Hospital.

Durand F. Jacobs, Ph. D., Ch. Psychol. Serv.; Robert G. Noble, Registrar; Tomah, Wis. (10394)

3177. Standardization of the Job Preference Record: An Instrument for Placing Inmates in Institutional Industries.

Durand F. Jacobs, Ph. D., Ch. Psychol. Serv.; Tomah, Wis. (10395)

3178. The Evaluation of Long-Term Effects of Chlorpromazine and Reserpine.

John W. Chotlos, Ph. D., Asst. Ch. Psychol. Serv.; Raymond E. Reinert, M.D., Asst. Ch. Prof. Serv.; William P. Benjamin, M.D., Ch. Acute Intensive Treatment Sect. Open; Alexander H. Milne, M.D., Ch. Cont. Treatment "B" Sect.; Topeka, Kans. (6749)

3179. Art Therapy.

Mary Huntoon, A.B., R.R.T., Creative Arts Therapist; Topeka, Kans. (7881)

3180. The Prediction of Success in Psychiatric Treatment.

Francis M. Moriarty, Ph. D., Ch. Psychol. Serv.; Topeka, Kan. (7883)

3181. A Statistical Study of Social Factors Correlated With Closed Ward Admissions and Chronic NP Hospitalization.

John B. Deiter, Ph. D., Staff, Psychol. Serv.; John W. Chotlos, Ph. D., Asst. Ch. Psychol. Serv.; Harold W. Feldman, Asst. Ch. Research, SWS; Topeka, Kan. (7891)

3182. Generalization of Improvement in Activity Therapies to Other Situations.

John E. Lubach, Ph. D., Hosp. Proj. Coord., Psychiat. Eval. Proj.; John W. Chotlos, Ph. D., Asst. Ch. Psychol. Serv.; Topeka, Kan. (7897)

3183. Social Work Service Project With Volunteer Companions.

Harold W. Feldman, Asst. Ch. Research, SWS; Topeka, Kan. (7900)

3184. An Exploration of the Dynamics of Intrapersonal Experience in Music.

George Dillinger, Jr., M.D., Resident Psychiat.; Topeka, Kan. (7902)

3185. A Systematic Analysis of the Initial Interview.

Jacob G. Jacobson, M.D., Resident Psychiat.; Horace G. Whittington, M.D., Resident Psychiat.; Topeka, Kan. (7903)

3186. A Study of the Effect of Compazine on "Conceptual Disorganization," "Compliance *vs.* Resistiveness," and "Submissiveness *vs.* Belligerence" in Hospitalized Schizophrenic Patients.

Alva D. Cook, Jr., M.D., Ch. Cont. Treatment "B" Sect.; Donald P. Barker, M.D., Resident Psychiat.; Topeka, Kan. (7905)

3187. The Relation of Sociability to Psychological-mindedness in Group Therapy With Alcoholics.

John B. Deiter, Ph. D., Staff, Psychol. Serv.; John W. Chotlos, Ph. D., Asst. Ch. Psychol. Serv.; Topeka, Kan. (7906)

3188. A Study to Determine the Duration of Effective Deterrent Action of Citrated Calcium Cyanamide (Temposil).

Alva D. Cook, Jr., M.D., Ch. Cont. Treatment "B" Sect.; Donald A. Neher, M.D., Resident Psychiat.; Topeka, Kan. (7908)

3189. Comparison of ECT With Iproniazid in Treatment of Depressive Symptoms.

Raymond E. Reinert, M.D., Asst. Dir. Prof. Serv.; Jack I. Ross, M.D., Resident Psychiat.; Topeka, Kan. (7909)

3190. A Study of Marital Conflict in Male Schizophrenic Hospitalized Patients

Arthur L. Leader, Ch. SWS; Topeka, Kan. (7910)

3191. Evaluation of Marsilid-Thorazine *vs.* Pacatal in Treatment of Chronic Psychotic Patients.

Raymond E. Reinert, M.D., Asst. Ch. Prof. Serv.; John B. Deiter, Ph. D., Staff, Psychol. Serv.; Topeka, Kans. (7911)

3192. Investigation of a Milieu Treatment Program for Chronic Schizophrenic Patients.

Alva D. Cook, Jr., M.D., Ch Cont. Treatment "B" Sect.; John B. Deiter, Ph. D., Staff, Psychol. Serv; Topeka, Kans. (7912)

3193. A Study of Group Psychotherapy with Hospitalized Patients.

Francis F. Vernallis, Ph. D.; Raymond E. Reinert, M.D.; Topeka, Kans. (7914)

3194. A Study of the Effect of a Compazine-Marsilid Combination as Compared with Vesprin in a Group of Apathetic Schizophrenic Patients.

Roger F. Reinhardt, M.D.; Samuel B. Schiff, M.D.; Topeka, Kans. (7915)

3195. An Experimental Analysis of the Individual Reaction to the Alcohol Complex.

Peter Hartocollis, M.D., Resident Psychiat.; Topeka, Kans. (7916)

3196. The Use of the Columbia Mental Maturity Scale in Diagnosing Organic Brain Damage.

George Mascia, B.B.A., Clin. Psychol. Tr., VAH; Maurice D. Huling, Ph. D., Asst. Prof., Psychol. Dept., Kansas Univ.; Topeka, Kans. (9258)

3197. Use of D-Lysergic Acid Diethylamide Tartrate (LSD-25) to Facilitate Group Therapy of Alcoholics.

Raymond E. Reinert, M.D., Asst. Dir. Prof. Serv.; John W. Chotlos, Ph. D., Exec. Sec.; John E. Lubach, Ph. D., Research Psychol.; William W. Van Stone, M.D., Resident, Psychiat. Serv.; Topeka, Kans. (9259)

3198. An Investigation of the Emotion of Embarrassment.

Jerome M. Sattler, M.A., Clin. Psychol. Tr.; Topeka, Kans. (9260)

3199. An Evaluation of the Effectiveness of the Archimedes Spiral and Graham-Kendall Memory-for-Designs Test for the Detection of Brain Damage.

E. Robert Sinnett, Ph. D., Staff, Psychol. Serv.; Topeka, Kans. (9264)

3200. Peer Relationships Among Patients as a Factor in Discharge From a Hospital Setting.

E. Robert Sinnett, Ph. D., Staff, Psychol. Serv.; Dana B. Hanford, Ph. D., Staff, Psychol. Serv.; Topeka, Kans. (9265)

3201. The Relationship Between the Ego Strength Scale and In-Hospital Improvement.

E. Robert Sinnett, Ph. D., Staff, Psychol. Serv.; Topeka, Kans. (9266)

3202. The Effect of Para-Acetamidobenzoic Acid Salt (Deaner) on the Activity of Chronic Schizophrenics.

Stanley L. Portnow, M.D., Resident, Psychiat. Serv.; Mark B. Ardis, M.D., Resident, Psychiat. Serv.; Topeka, Kans. (9267)

3203. Effects of an Industrial Therapy Program on Attitudes of Personnel Toward Mental Patients.

James C. Folsom, M.D., Ch. PMR; John E. Lubach, Ph. D., Research Psychol.; Topeka, Kans. (9268)

3204. University Students as Volunteer Companions for Mental Hospital Patients.

Harold W. Feldman, Asst. Ch. Soc. Work Serv.; Topeka, Kans. (9269)

3205. The Performance of Normal, Neurotic, Brain Damaged and Psychotic Individuals on a Number of Psychophysical and Psychometric Measures.

Harold K. Rice, Clin. Psychol. Tr.; Donald R. Farren, Clin. Psychol. Tr.; John K. Kew, Ph. D., Asst. Ch. Psychol. Serv.; Earl C. Brown, Ph. D., Ch. Psychol. Serv.; Tuscaloosa, Ala. (9017)

3206. Evaluation of a Psychotherapy Case in Terms of Change in a Relevant Dependent Variable.

Henry C. Rickard, Clin. Psychol. Tr.; Earl C. Brown, Ph. D., Ch. Psychol. Serv.; Tuscaloosa, Ala. (9018)

3207. Prediction of Length of Hospitalization and Severity of Disorder by Performance on a Concept Formation Test.

Edwin O. Timmons, Ph. D., Clin. Psychol.; Nathaniel A. Moore, Clin. Psychol. Tr.; Tuscaloosa, Ala. (10665)

3208. Actuarial Evaluation of Factors Associated With Length of Hospitalization.

Robert E. Taylor, Clin. Psychol. Tr.; Tuscaloosa, Ala. (10666)

3209. The Relationship of Apparent Digital Thermal Insensitivity to Diagnostic Categories.

Nathaniel A. Moore, Clin. Psychol. Tr.; Samuel Shelton, Psychiat.; Tuscaloosa, Ala. (10667)

3210. Significant Factors Operating in Group Psychotherapy.

Henry C. Rickard, Ph. D., Clin. Psychol.; Edwin O. Timmons, Ph. D., Clin. Psychol.; Sidney A. Wohl, Ph. D., Clin. Psychol.; John K. Kew, Ph. D., Ch. Psychol. Serv.; N. Archer Moore, Clin. Psychol. Tr.; Robert E. Taylor, Clin. Psychol. Tr.; Tuscaloosa, Ala. (10668)

3211. The Effects of Intensity on Stimulus Generalization Among Normals and Psychiatric Subjects.

N. Archer Moore, Clin. Psychol. Tr.; Tuscaloosa, Ala. (10669)

3212. A Measure of Attitudes Toward Mental Illness in Various Locations in the United States and Britain.

Fred H. Wright, Ph. D., Counsel. Psychol., VAH, Tuscaloosa, Ala.; Raymond R. Shrader, Ph. D., Cons. Psychol., Univ. of Tennessee; Knoxville, Tenn. (10670)

3213. An Investigation of Cigarette Consumption of Locked Ward Patients as a Function of the Availability of a Wall Cigarette Lighter.

Sidney A. Wohl, Ph. D., Clin. Psychol.; Lawrence O. Fanning, Manual Arts Therapist; Sam Christian, Jr., Nursing Asst.; Tuscaloosa, Ala. (10671)

3214. Perceptual Organization, Shifting Perspective, and Perceptual Freedom of Normals' Versus Various Groups of NP Patients.

Sidney A. Wohl, Ph. D., Clin. Psychol.; B. S. Kurpiewski, Ph. D., Clin. Psychol. Tr.; Tuscaloosa, Ala. (10672)

3215. Brightness Discrimination and Psychophysiological Correlates of Attention.

Sidney A. Wohl, Ph. D., Clin. Psychol.; Tuscaloosa, Ala. (10673)

3216. The Relationship of Distortion in Time Perception to Anomalous Mental State.

Sidney A. Wohl, Ph. D., Clin. Psychol.; B. S. Kurpiewski, Ph. D. Clin. Psychol. Tr.; Tuscaloosa, Ala. (10674)

3217. The Behavioral Effect of Active Versus Passive Participation in Various Situations.

Sidney A. Wohl, Ph. D., Clin. Psychol.; B. S. Kurpiewski, Ph. D., Clin. Psychol. Tr.; Tuscaloosa, Ala. (10675)

3218. An Investigation of Tridimensionality and Intracranial Pathology.

Sidney A. Wohl, Ph. D., Clin. Psychol.; Tuscaloosa, Ala. (10676)

3219. Research on a Symbolic Level of Psychological Test Indices.

Sidney A. Wohl, Ph. D., Clin. Psychol.; Tuscaloosa, Ala. (10677)

3220. An Investigation of the Therapeutic Value of Bibliotherapy.

Sadie P. Delaney, Ph. D., Ch. Library Serv.; George W. Franklin, Ph. D., Ch. Counsel. Psychol.; Lucius Williams, M.S.W., Case Super. SWS; Tuskegee, Ala. (7932)

3221. A Comparison of Thorazine and Reserpine as Maintenance Drugs for Chronic Schizophrenic Patients.

John R. Shawver, M.D., Asst. Dir. Prof. Serv.; Donald R. Gorham, Ph. D., Clin. Psychol.; Wealty W. Good, M.D., Ward Psychiat.; David E. Kabnick, M.D., Ward Psychiat.; Louis W. Leskin, M.D., Ward Psychiat.; Waco, Tex. (7937)

3222. Analysis of Blood-Urine Constituents and Physiological and Psychological Functions.

Wealty W. Good, M.D., Ward Psychiat., VAC; Roy B. Mefferd, Jr., Ph. D., Biochem., Clayton Found., Biochem. Inst., Univ. of Texas; Donald R. Gorham, Ph. D., Clin. Psychol., VAC; Louis J. Moran, Ph. D., Asst. Prof. Psychol., Univ. of Texas; John R. Shawver, M.D., Asst. Dir. Prof. Serv., VAC; Waco, Tex. (7938)

3223. Cognitive Structure in Paranoid Schizophrenia.

Donald R. Gorham, Ph. D., Clin. Psychol., VAC; Wayne H. Holtzman, Ph. D., Assoc. Dir. for Research, Hogg Found. for Ment. Health; Louis J. Moran, Ph. D., Asst. Prof., Univ. of Texas; John R. Shawver, M.D., Asst. Dir., Prof. Serv., VAC; Waco, Tex. (7939)

3224. Study of the Family Care Program, VAC, Waco, Texas.

Edward N. Pugh, Ch. Soc. Work Serv.; John A. Price, Family Care Soc. Worker; Waco, Tex. (8800)

3225. Social Adequacy Rating Scales: A. For rating social adjustment in the community; B. For rating social adjustment in the hospital.

Louis E. Pinchak, Clin. Soc. Worker, VAC; Glen W. Rollins, Research Sp., Hogg Foundation, Univ. of Tex.; Edward N. Pugh, Ch., SWS, VAC; Waco, Tex. (8968)

3226. Platelet Counts and Clotting Mechanism During Prolonged Thorazine Therapy.

John R. Shawver, M.D., Psychiat.; Stanley M. Tarnowski, Biochem.; Waco, Tex. (8969)

3227. The Effect of Success and Failure Upon the Learning Efficiency and Need-Achievement of Schizophrenics.

Roy C. Long, Psychol. Tr.; Waco, Tex. (8970)

3228. An Objective Measure of Defensiveness.

Ralph Robinowitz, Ph. D., Clin. Psychol., VAC; Jack Hand, Ph. D., Assoc. Prof., Psychol. Dept., Baylor Univ.; Waco, Tex. (9270)

3229. Testing Sc Scale of MMPI for Screening Purposes.

Ralph Robinowitz, Ph. D., Clin. Psychol.; Waco, Tex. (9271)

3230. Proverbs Test Norms for Clinical Groups.

Donald R. Gorham, Ph. D., Clin. Psychol.; Waco, Tex. (10662)

3231. Comparison of Pre- and Post-hospital Occupational Attainment of Counseled Chronic Psychotics.

Priscilla Meyer, Ph. D., Counsel. Psychol.; Waco, Tex. (10663)

3232. Social Work Service Follow-up Study of Patients Involved in "Cognitive Structure in Chronic Paranoid Schizophrenia".

Louis Pinchak, M.A., Super. Clin. Soc. Worker; Edward N. Pugh, M.S.S.W., Ch. Soc. Work Serv.; Waco, Tex.; Louis J. Moran, Ph. D., Research Psychol., Psychiat. and Psychosomat. Research Labor.; Houston, Tex. (10664)

3233. A Study of Habituation to Tranquilizers, Barbiturates and Alcohol in Animals Subjected to Experimental Anxiety.

Albert Casey, Experiment. Psychol. Tr.; Wadsworth, Kans. (8042)

3234. Patterns of Psychophysiological Responses and Clinical Symptoms.

Luther L. Mays, Ph. D., Ch. Neuropsychiat. Research; Harold F. Corson, M.D., Ch. Psychiat. and Neur. Serv.; Peter W. Kyriazis, M.A., Psychol. Asst.; Washington, D.C. (7970)

3235. The Relation Between Rorschach Test Indicators of Emotionality and Psychophysiological Responsiveness.

Luther L. Mays, Ph. D., Ch. Neuropsychiat. Research; Harold F. Corson, M.D., Ch. Psychiat. and Neur. Serv.; Peter W. Kyriazis, M.D., Psychol. Asst.; Washington, D.C. (7971)

3236. Psychophysiological Concomitants of Action-Orientation in Mental Patients.

Luther L. Mays, Ph. D., Ch. Neuropsychiat. Research; Harold F. Corson, M.D., Ch. Psychiat. and Neur. Serv.; Peter W. Kyriazis, M.A., Psychol. Asst.; Washington, D.C. (7972)

3237. The Relation Between Respiration Rate and Intelligence in Mental Patients.

Luther L. Mays, Ph. D., Ch. Neuropsychiat. Research; Harold F. Corson, M.D., Ch. Psychiat. and Neur. Serv.; Peter W. Kyriazis, M.A., Psychol. Asst.; Washington, D.C. (7973)

3238. Speed of Adaptive Psychophysiological Responses in Functional and Brain Damaged Mental Patients.

Luther L. Mays, Ph. D., Ch. Neuropsychiat. Research; Harold F. Corson, M.D., Ch. Psychiat. and Neur. Serv.; Peter W. Kyriazis, M.A., Psychol. Asst.; Washington, D.C. (7974)

3239. A Dual-Function Mixer-Filter for Small Automation Installations.

Luther L. Mays, Ph. D., Ch. Neuropsychiat. Research; Washington, D.C. (10610)

3240. A Time Synchronizing System for Small Automation Installations.

Luther L. Mays, Ph. D., Ch. Neuropsychiat. Research; Washington, D.C. (10611)

3241. A Programmer for Presenting Stimuli of Wide Dynamic Range.

Luther L. Mays, Ph. D., Ch. Neuropsychiat. Research; Washington, D.C. (10612)

3242. Relationship between Two Clinical Tests Purportedly Measuring the Same.

Mimi J. Spielberg, Ph. D., Clin. Psychol.; John F. Cullen, B.A., Clin. Psychol. Tr.; Michael A. Deem, B.A., Clin. Psychol. Tr.; Bernard A. O'Brien, B.A., Clin. Psychol. Tr., VBO; Washington, D.C. (8008)

3243. Cooperative Study to Predict Response to Individual Psychotherapy.

Maurice Lorr, Ph. D., (Coordinator), Ch. Neuropsychi. Research Lab.; VBO, Washington, D.C. (8018)

3244. Development of an Objective Category Scoring Scheme for the Miale-Holsopple Sentence Completion Test.

Maurice Lorr, Ph. D., Dir. Neuropsychiat. Research Lab.; Douglas M. McNair, Ph. D., Clin. Psychol., Neuropsychiat. Research Lab., VBO; Martin M. Katz, Ph. D., Executive Secretary, Psychopharm. Advisory Committee, Nat. Inst. Ment. Health; Washington, D.C. (8019)

3245. A Psychodiagnostic Study of a Sex Killer.

Mary H. Tatom, Ph. D., Ch. Psychol. Legal Psychiat. Serv.; William W. Michaux, Ph. D., Asst. Dir., Neuropsychiat. Research Lab.; VBO, Washington, D.C. (8020)

3246. A Tri-Dimensional Approach to Measuring Psychological Adjustment.

Eli A. Rubinstein, Ph. D., Program Analyst, Tr. & Stand. Branch, Nat. Inst. Ment. Health; Maurice Lorr, Ph. D., Dir. Neuropsychiat. Research Lab., VBO; Washington, D.C. (8021)

3247. An Analysis of Verbal Interaction in Psychotherapy.

Douglas M. McNair, Ph. D., Clin. Psychol., Neuropsychiat. Research Lab.; Maurice Lorr, Ph. D., Dir., Neuropsychiat. Research Lab., VBO; Washington, D.C. (8022)

3248. Use of a Symptom Checklist in a Mental Hygiene Clinic.

William W. Michaux, Ph. D., Asst. Dir. Neuropsychiat. Research Lab., VBO; Washington, D.C. (8023)

3249. Validation of Selected Rorschach Test Variables.

William W. Michaux, Ph. D., Asst. Dir. Neuropsychiat. Research Lab.; Mary H. Tatom, Ph. D., Ch. Psychol., Lega Psychiat. Serv.; Mimi J. Spielberg, Ph. D., Clin. Psychol. Menta Hygiene Clin., VBO; Washington, D.C. (8024)

3250. Change Factors in Treated and Untreated Psychiatric Patients.

Maurice Lorr, Ph. D., Dir. Neuropsychiat. Research Lab., VBO; Washington, D.C. (8025)

3251. A Mental Hygiene Clinic Medication Survey.

Maurice Lorr, Ph. D., Dir. Neuropsychiat. Research Lab.; Douglas M. McNair, Ph. D., Clin. Psychol., VBO; Washington, D.C. (8026)

3252. Patient Verbal Fluency in Psychotherapy.

Douglas M. McNair, Ph. D., Clin. Psychol., VBO; Washington, D.C. (8028)

3253. Why Patients Terminate Psychotherapy: A Follow-Up Study.

Maurice Lorr, Ph. D., Dir. Neuropsychiat. Research Lab., VBO; Washington, D.C. (8029)

3254. Therapists' Judgments of the Appropriateness of Psychotherapy Frequency Schedules.

Douglas M. McNair, Ph. D., Clin. Psychol.; Maurice Lorr, Ph. D., Dir. Neuropsychiat. Research Lab., VBO; Washington, D.C. (8866)

3255. Employment, Social and Family Adjustment Scales as Measures of Outcome of Individual Psychotherapy.

Allen Raskin, Ph. D., Clin. Psychol.; Maurice Lorr, Ph. D., Dir. Neuropsychiat. Research Lab., VBO; Washington, D.C. (8867)

3256. Psychotherapists' Treatment Goals.

William W. Michaux, Ph. D., Asst. Dir. Neuropsychiat. Research Lab.; Maurice Lorr, Ph. D., Dir. Neuropsychiat. Research Lab.; Douglas M. McNair, Ph. D., Clin. Psychol.; Allen Raskin, Ph. D., Clin. Psychol., VBO; Washington, D.C., (8868)

3257. Rating Scales and Behavior Inventories.

Maurice Lorr, Ph. D., Ch. Neuropsychiat. Research Lab., VBO; Washington, D.C. (10686)

3258. The Effects of Ataractic Therapy on Conditioning Rate of Galvanic Skin Response in a Group of Psychiatric Patients.

Lonnie E. Mitchell, Ph. D., Clin. Psychol., VBO; Washington, D.C. (10687)

3259. Reactions of Schizophrenics to GSR Conditioning and Thorazine Therapy.

Lonnie E. Mitchell, Ph. D., Clin. Psychol.; VBO, Washington, D.C. (10688)

3260. Sex Difference in Reaction to Minority Group Status.

Lonnie E. Mitchell, Ph. D., Clin. Psychol., Ment. Hygiene Clinic, VBO; Washington, D.C. (10689)

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3261. Standardization of an Inpatient Multidimensional Psychiatric Scale.

Maurice Lorr, Ph. D., Ch. Neuropsychiat. Research Lab.; Douglas M. McNair, Ph. D., Clin. Psychol., Neuropsychiat. Research Lab., VBO; Julian J. Lasky, Ph. D., Ch. Central NP Research Lab., VAH, Perry Point, Md.; C. James Klett, Ph. D., Ch. Criterion Develop. Sect., Central NP Research Lab., VAH, Perry Point, Md.; Washington, D.C. (10690)

3262. Validity of Ratings of Psychotherapeutic Competence.

Douglas M. McNair, Ph. D., Clin. Psychol., Neuropsychiat. Research Lab.; Maurice Lorr, Ph. D., Ch. Neuropsychiat. Research Lab.; William W. Michaux, Ph. D., Asst. Ch. Neuropsychiat. Research Lab.; Allen Raskin, Ph. D., Clin. Psychol., Neuropsychiat. Research Lab., VBO; Washington, D.C. (10691)

3263. Development of a Checklist of Psychotherapist Behaviors.

Douglas M. McNair, Ph. D., Clin. Psychol., Neuropsychiat. Research Lab.; William W. Michaux, Ph. D., Asst. Ch. Neuropsychiat. Research Lab.; Maurice Lorr, Ph. D., Ch. Neuropsychiat. Research Lab., VBO; Washington, D.C. (10692)

3264. Patient Patterns of Anxiety on the Taylor Manifest Anxiety Scale.

Maurice Lorr, Ph. D., Ch. Neuropsychiat. Research Lab.; Douglas M. McNair, Ph. D., Clin. Psychol., Neuropsychiat. Research Lab., VBO; Washington, D.C. (10693)

3265. Prediction of Placebo Response in Psychiatric Outpatients.

William W. Michaux, Ph. D., Asst. Ch. Neuropsychiat. Research Lab.; Maurice Lorr, Ph. D., Ch. Neuropsychiat. Research Lab.; Douglas M. McNair, Ph. D., Clin. Psychol.; Allen Raskin, Ph. D., Clin. Psychol., VBO; Henry H. Weiss, Ph. D., Clin. Psychol., Chicago (W.S.), Ill.; Washington, D.C. (10694)

3266. An Index for Therapist Assessment of Change in Psychotherapy Patients.

Douglas M. McNair, Ph. D., Clin. Psychol., Neuropsychiat. Research Lab.; Maurice Lorr, Ph. D., Ch. Neuropsychiat. Research Lab., VBO; Washington, D.C. (10695)

3267. Relations Between Intraclass Correlation and Coefficient Alpha.

Maurice Lorr, Ph. D., Ch. Neuropsychiat. Research Lab., VBO; Washington, D.C. (10697)

3268. Personality and Humor.

Jacob Levine, Ph. D., Ch. Clin. Psych., VAH; Frederick Redlich, M.D., Prof. Psychiat., Chm., Dept. of Psychiat., Yale Univ., New Haven, Conn.; West Haven, Conn. (8103)

3269. The Relation Between Certain Autonomic Changes, Organic Symptoms and Anxiety.

Jacob Levine, Ph. D., Ch. Clin. Psychol.; Louis Fierman, M.D., Ch. Psychiat. Sect.; West Haven, Conn. (8105)

3270. Response of Locked Ward Psychiatric Patients to Annual Change of Resident Psychiatrists.

Lane Ameen, M.D., Ch. Closed Units; Julius Laffal, Ph. D., Clin. Psychol.; West Haven, Conn. (8106)

3271. Changes in Galvanic Skin Reflex Response in Relation to Emotional States.

Jacob Levine, Ph. D., Ch. Clin. Psychol.; Louis Fierman, M.D., Ch. Psychiat. Sect.; West Haven, Conn. (8108)

3272. A Study of Conscious Attitudes Toward Treatment Situations in the Neuropsychiatric Service.

Louis Fierman, M.D., Ch. Psychiat. Sect.; Alan Towbin, Ph. D., Clin. Psychol.; West Haven, Conn. (8109)

3273. The Relation of Psychiatric Illness to Response to Steroids in Patients With Far Advanced Tuberculosis.

Edwin Wood, M.D., Ch. Psychiat. Admissions; John Rakusin, Ph. D., Clin. Psychol.; Alan P. Towbin, Ph. D., Clin. Psychol.; West Haven, Conn. (8112)

3274. Evaluation of the Function of the "Closed Ward" in Psychiatric Hospitalization.

John Higgins, M.D., Ch. Psychiat. Serv.; Lane Ameen, M.D., Ch. Closed Units; West Haven, Conn. (8116)

3275. Attitudes Toward Mental Illness by Psychiatric Aides, Medical Students, Psychiatric Nurses.

Jacob Levine, Ph. D., Ch. Clin. Psychol.; Elda Jenkins, B.A., Nurs. Super., Neuropsychiat. Serv.; West Haven, Conn. (8117)

3276. Psychiatric Hospitalization: A Study of Interpersonal Factors Leading to the Hospitalization of Patients.

Edwin Wood, M.D., Ch. Psychiat. Admissions; John Rakusin, Ph. D., Clin. Psychol.; Emanuel Morse, Ch. Soc. Serv.; West Haven, Conn. (8118)

3277. Language Distortions in Schizophrenia.

Julius Laffal, Ph. D., Clin. Psychol.; West Haven, Conn. (8123)

3278. Similarities and Differences Among Residents, Nurses and Aides in the Perception of Patients.

Aaron Hershkowitz, Ph. D., Ch. Soc. Psychol. Research Unit; Ira Goldenberg, Tr. Soc. Psychol.; West Haven, Conn. (9870)

3279. An Observational Study of Patients on a Chronic Closed Psychiatric Ward.

Aaron Hershkowitz, Ph. D., Ch. Soc. Psychol. Research Unit; Ruth Singer, M.Ss., S. S.; Ira Goldenberg, Tr. Soc. Psychol.; West Haven, Conn. (9871)

3280. An Experimental Investigation of Conformity to Group Pressure.

Aaron Hershkowitz, Ph. D., Ch. Social Psychol. Research Unit; West Haven, Conn. (9872)

3281. An Experimental Study of the Effects of Induced Stress Upon Responses to Humorous Stimuli.

Jacob Levine, Ph. D., Ch. Psychol.; Richmond E. Johnson, Tr. Exper. Psychol.; West Haven, Conn. (9873)

3282. A Study of Supervision of Psychotherapy.

Edwin C. Wood, M.D., Ch. Psychiat. Admissions; Louis B. Fierman, M.D., Ch. Psychiat. Sect.; West Haven, Conn. (9874)

3283. Development of a Rating Instrument To Measure Passive-Dependent and Passive-Aggressive Behavior Patterns.

Howard J. Shear, Ph. D.; Harold D. Blessing, Ph. D., Staff Psychol.; Searles A. Grossman, Ph. D., Ch. Psychol. Sec.; Wilmington, Del. (10164)

3284. The Reliability of Two-Digit Minnesota Multiphasic Personality Inventory Code Types.

Jerome D. Schein, Ph. D., Cons. Clin. Psychol.; Robert Callahan, Ph. D., Clin. Psychol.; Samuel H. Friedman, Ph. D., Clin. Psychol.; Wood, Wis. (9749)

3285. A Comparative Study of Long Stay and Short Stay Members in the Domiciliary.

Carol Schulke, B.A., Grad. Stud., Univ. of Wis. Sch. of SW; Miriam Urich, B.A., Grad. Stud., Univ. of Wis. Sch. of SW; Walter S. Grochowski, M.S.W., Clin. Super. SWS VAC; Wood, Wis. (9750)

3286. An Investigation of the Concurrent Validity and of the Reliability of a Job Preference Record.

Durand F. Jacobs, Ph. D., Ch. Psychol. Serv., VAH, Tomah, Wis.; Desmond D. O Connell, Ph. D., Ch. Vocat. Counsel. Serv.; Richard N. Filer, Ph. D., Clin. Psychol. and Ch. Domiciliary Pilot Serv., VAC; Sylvester F. Verbeten, Ph. D., Constructive Activity Coord., Domiciliary Pilot Serv., VAC; Wood, Wis. (9751)

3287. A Descriptive Study of Measured Attitudes as a Reflection of Adjustment of a Domiciliary Population.

Dale McLachlan, B.A., SW Stud.; Gerald Rosenmier, B.A., Grad. Stud., Univ. of Wis. Sch. of SW; Dale Bessett, B.A., Grad. Stud., Univ. of Wis. Sch. of SW; Frank Scelecki, B.A., Grad. Stud., Univ. of Wis. Sch. of SW; Walter S. Grochowski, M.S.W., Clin. Super., SWS, VAC; Wood, Wis. (9752)

3288. Responsiveness of Psychotic and Non-Psychotic Patients to Several Classes of Feedback.

Walter J. Johannsen, Ph. D., Clinical Psychol.; Wood, Wis. (9753)

3289. Anticholinergic and Nicotinolytic Agent for the Treatment of Extrapyramidal and Other Brain Syndromes.

Earl W. Niles, M.D., Act. Ch. Neur. Sec.; Paul A. Dudenhoefer, M.D., Ch. PM&R Serv.; Mary Pat Murray, A.B., Sc. M., Super. Clin. Tr., PM&R Serv.; Wood, Wis. (9754)

3290. An Evaluation of Predictive Indicators of Surgical Refusal and AMA's Among TB Patients.

Robert Callahan, Ph. D., Clin. Psychol.; LeRoy R. Leifer, M. Ed., Ch. Manual Arts Therapy, PM&R Serv.; Wood, Wis. (8302)

3291. Psychometric Effects of Frontal and Parietal Lobe Brain Damage—Cross-Validation.

Samuel H. Friedman, Ph. D., Ch. Clin. Psychol. Sec.; Wood, Wis. (8303)

6. Nervous System and Sense-Organ Diseases

(a) Nervous system

3292. Glutamic Oxaloacetic Transaminase Levels in Cerebrospinal Fluid.

Theodore A. Boiter, B.S., Ch. Biochem. Sect.; Ann Arbor, Mich. (2140)

3293. Evaluation of Carbon Dioxide and Oxygen Inhalation in the Acute Phase of Cerebral Thrombosis.

Edward A. Cary, M.D., Ch. Neur. Serv.; Claude Lowry, M.D., Neur.; Ann Arbor, Mich. (2175)

3294. Evaluation of a New Anticonvulsant (RO–24523) in Grand Mal Epilepsy.

Edward A. Cary, M.D., Ch. Neur. Serv.; Claude Lowry, M.D., Neur.; Ann Arbor, Mich. (2191)

3295. Evaluation of a New Anticonvulsant (RO–24523) in Grand Mal Epilepsy.

Edward A. Cary, M.D., Ch. Neur. Serv.; Claude Lowry, M.D., Neur.; Ann Arbor, Mich. (2192)

3296. Differentiation of Normal Aging From Recently or Rapidly Acquired Mental Deterioration.

Bernard Berkowitz, Ph. D., Ch. Clin. Psychol.; Bath, N.Y. (2411)

3297. Changes in Primary Mental Abilities With Age.

Bernard Berkowitz, Ph. D., Ch. Clin. Psychol.; Bath, N.Y. (3051)

3298. Binaural Beats: Their Perception by Individuals With and Without Organic Brain Pathology.

Eric G. Kent, Clin. Psychol. Tr.; A. Cooper Price, Ph. D., Ch. Psychol. Serv.; Biloxi (Biloxi Div.), Miss. (2500)

3299. Color Fusion Thresholds for Organics and Nonorganics.

A. Cooper Price, Ph. D., Ch. Psych. Serv.; Eric G. Kent, Clin. Psych. Tr.; Biloxi (Biloxi Div.), Miss. (2502)

3300. Relationships of Variables Upon Effectiveness of Spiral After-image Test.

A. Cooper Price, Ph. D., Ch. Psych. Serv.; Biloxi (Biloxi Div.), Miss. (2504)

3301. Facilitation of Thresholds of Auditory Intensity by Use of Additional Modalities.

A. Cooper Price, Ph. D., Ch. Psych. Serv.; Biloxi (Biloxi Div.), Miss. (2505)

3302. Study of Color Perception in Organic Patients and Geriatric Cases.

A. Cooper Price, Ph. D., Ch. Psych. Serv.; Biloxi (Biloxi Div.), Miss. (2506)

3303. Depth Perception in the Organics.

Carl S. Hoffman, Exper. Psychol. Tr.; A. Cooper Price, Ph. D., Ch. Psychol. Serv.; Ephraim S. Garrett, M.D., Ch. Neuropsychiat. Serv.; William Rothstein, Clin. Psychol. Tr.; Biloxi (Biloxi Div.), Miss. (2507)

3304. Light Discrimination in the Organics.

A. Cooper Price, Ph. D., Ch. Psychol. Serv.; Biloxi (Biloxi Div.), Miss. (2508)

3305. Comparison of the Spiral Aftereffect With Other Measures of Cortical Brain Damage.

Carl S. Hoffman, Experiment. Psychol. Tr., Florida State Univ.; A. Cooper Price, Ph. D., Ch. Psychol. Serv., VAC; E. S. Garrett, M.D., Ch. Neuropsychiat. Serv., VAC; William Rothstein, Clin. Psychol. Tr., Florida State Univ.; Biloxi (Biloxi Div.), Miss. (8611)

3306. The Effects of Tranquilizers on Discrimination Reversals.

Helen L. White, Experiment. Psychol. Tr., Florida State Univ.; A. Cooper Price, Ph. D., Ch. Psychol. Serv., VAC; Biloxi (Biloxi Div.), Miss. (8612)

3307. Effect of Reserpine on Thyroid Secretion Rate in Man.

James A. Pittman, Jr., M.D., Ch. RI Serv.; Birmingham, Ala. (9673)

3308. Test for Cerebral Language Function Laterality by the Intracarotid Injection of Nembutal.

J. H. Drew, M.D., Ch. Neurosurg.; R. Kjellberg, M.D., Resident Neurosurg.; R. Ojemann, M.D., Resident Neurosurg.; W. Cooley, M.D., Resident ENT; F. Quadfasel, M.D., Ch. Neur.; H. Goodglass, Ph. D., Asst. Ch. Clin. Psychol. Sec.; Boston, Mass. (2693)

3309. A New Technique for Trans-Sphenoidal Pituitary Surgery.

J. H. Drew, M.D., Ch. Neurosurg.; R. Kjellberg, M.D., Resident Neurosurg.; R. Ojemann, M.D., Resident Neurosurg.; W. Cooley, M.D., Resident ENT; Boston, Mass. (2694)

3310. Quantitative Aspects of Aphasia.

Norman Geschwind, M.D., Staff Neur., VAH; Davis Howes, Ph. D., Asst. Prof. Psychol. Massachusetts Inst. of Technology; Boston, Mass. (2709)

3311. The EEG in Recurrent Labyrinthitis (Meniere's Syndrome).

W. J. Friedlander, M.D., Ch. Epilepsy Center; R. Egan, M.D.; Boston, Mass. (2708)

3312. Clinical and Anatomical Localization by Use of Electroencephalogram in Brain Injuries Which Result in Aphasia.

F. A. Quadfasel, M.D., Ch. Neur. Sect.; Walter J. Friedlander, M.D., Ch. Epilepsy Unit; Boston, Mass. (2711)

3313. Clinical Evaluation of Parental Chlorpromazine as an EEG Activating Agent.

W. J. Friedlander, M.D., Ch. Epilepsy Center; Boston, Mass. (2715)

3314. Electroencephalographic Changes in Acute Brain-Stem Vascular Lesions.

W. J. Friedlander, M.D., Ch. Epilepsy Center; Boston, Mass. (2716)

3315. Effect of Pneumoencephalography on the Brain as Measured by the EEG.

Walter J. Friedlander, M.D., Ch. Epilepsy Unit; D. N. Squires, M.D., Res. Neur.; Boston, Mass. (2718)

3316. Metrazol-Activation Response in Non-epileptic Episodic Disorders.

W. J. Friedlander, M.D., Ch. Epilepsy Center; Boston, Mass. (2721)

3317. Pharmacological Activation of the Electroencephalogram.

W. J. Friedlander, M.D., Ch. Epilepsy Cent.; Boston, Mass. (2722)

3318. Convulsive Seizures as a Cause of Fever.

Rose Winston, M.D., Resident, Neur.; Walter J. Friedlander, M.D., Ch. Epilepsy Unit; Boston, Mass. (2724)

3319. Clinical Correlates of Beta-Foci in the Electroencephalogram.

Walter J. Friedlander, M.D., Ch. Epilepsy Unit; Boston, Mass. (2725)

3320. Clinical Significance of a Generalized "Build-Up" Due to Hyperventilation in Adults.

Walter J. Friedlander, M.D., Ch. Epilepsy Unit; Boston, Mass. (2726)

3321. Clinical Correlates of Slow Alpha in the Electroencephalogram.

Walter J. Friedlander, M.D., Ch. Epilepsy Unit; Boston, Mass. (2727)

3322. Exaggeration of Focal Abnormalities in the EEG Due to a Seizure.

Walter J. Friedlander, M.D., Ch. Epilepsy Unit; Boston, Mass. (2728)

3323. Correlation of Handedness and Eyedness with Decreased Occipital Alpha.

Walter J. Friedlander, M.D., Ch. Epilepsy Unit; Boston, Mass. (2729)

3324. Clinical Significance of "Meiopragic" EEG Focus.

Walter J. Friedlander, M.D., Ch. Epilepsy Unit; Boston, Mass. (2731)

3325. Clinical Correlates of Diffuse Delta.

W. J. Friedlander, M.D., Ch. Epilepsy Center; Boston, Mass. (2733)

3326. Relation Between Stimulus Intensity and Strength of Escape Responding—Part 2.

John J. Barry, Jr., Ph. D., Ch. Neur. Research Lab.; Boston, Mass. (10269)

3327. The Nature of Electrocardiographic Artifact in the Electroencephalogram.

W. J. Friedlander, M.D., Ch. Epilepsy Center; Boston, Mass. (10291)

3328. Clinical Evaluation of Frontal Asymmetric Slow EEG Activity.

W. J. Friedlander, M.D., Ch. Epilepsy Center; Boston, Mass. (10295)

3329. Is the EEG Alpha Frequency a Measure of the "Brain-Clock"?

W. J. Friedlander, M.D., Ch. Epilepsy Cent.; Boston, Mass. (10296)

3330. Ionic Aspects of Conduction in Muscle.

Norman Geschwind, M.D., Staff Neur.; Boston, Mass. (10297)

3331. The Relationship of Various Meteorological as well as Socio-Environmental Factors to the Clinical (Psychophysiological) Status of Multiple Sclerosis.

Paul B. Jossmann, M.D., Ph. D., Neur.; Irving M. Levine, M.D., Neur.; Elizabeth A. Hopkins, M.D., Psychiat., VAOC; M. Greenblatt, M.D., Cons., VAOC, Asst. Clin. Prof. Psychiat., Harvard Med. Sch.; Boston, Mass. (3063)

3332. The Evaluation of AHR–233 (Methoxydone) as a Skeletal Muscle Relaxant in Chronic Neurological Disorders.

Irving M. Levine, M.D., Neur.; Paul B. Jossmann, M.D., Ph. D., Neur.; Bernard Yood, M.D., Ch. Neuropsychiat. Serv.; Vincent DeAngelis, Ch. Tech., VAOC; Milton Greenblatt, M.D., Assoc. Prof. of Psychiat., Harvard Med. Sch.; Dale G. Friend, M.D., Asst. Prof. of Med., Harvard Med. Sch.; Boston, Mass. (8576)

3333. A Case of Automatic Dysfunction With Primarily Sympathetic Manifestation.

Dr. O. Alan Rose, Assoc. Prof., Med., New York University; Dr. John J. Kneisel, Asst. Ch. Surg. Serv.; Bronx, N.Y. (4549)

3334. Paroxysmal Hypertension in Spinal Cord Injuries.

Andor A. Weiss, M.D., Asst. Ch. PMR; George B. D'Oronzio, M.D., Staff Phys., Urol. Serv.; Erich G. Krueger, M.D., Ch. Neurosurg. Serv.; Bronx, N.Y. (4580)

3335. Recovery of Cortical Sensory Function After Removal of Parietal Convexity Meningiomas.

Hans L. Teuber, M.D., Area Cons. Psychol.; Erich G. Krueger, M.D., Ch. Neurosurg. Serv.; Bronx, N.Y. (4588)

3336. The Total Protein Content of the Cerebrospinal Fluid in Brain Tumors: A Review of the Literature.

C. B. Booth; Bronx, N.Y. (4591)

3337. Investigation of Parietal Lobe Function in Tumors of the Parietal Lobe Before and After Surgical Removal.

Erich G. Krueger, M.D., Ch. Neurosurg. Serv.; Hans L. Teuber, Ph. D., Cons. Psychol., VAH, Prof. Psychol., New York Univ. Coll. Med.; Ildiko Mohacsy, M.D., Attend., VAH, Research Fellow, Bellevue Med. Center; Bronx, N.Y. (4592)

3338. Epistaxis and Aneurysm of an Intracranial Artery.

Harry Kolson, M.D.; Daniel Seftel, M.D., Resident, Surg. Serv.; Bronx, N.Y. (4593)

3339. Employment Motivation of Spinal Cord Injury Patients.

Sidney Z. Brent, Exec. Asst. PMR Serv.; Bronx, N.Y. (4630)

3340. Inclusion Encephalitis Due to Herpes Simplex; Report of a Case.

Carl B. Booth, M.D., Ch. Neur. Sect., VAH; H.Okazaki, M.D., Fellow, Neuropath., Columbia Presbyt. Med. Center; Claude Gaulin, M.D., Resident, Path., VAH; Bronx, N.Y. (8647)

3341. Investigation of the Effect of "Sinaxar" on Spasticity.

Dr. Kurt Raab, PMR; Dr. Konstanty Bogdanski, PMR; Dr. George D'Oronzio, Urol. Sect. Surg. Serv.; Dr. Harold Lindenauer, Asst. Ch. Spinal Cord Injury Sect.; Bronx, N.Y. (8665)

3342. Electromyographic Evaluation of the "Cross Exercise" Effect.

Dr. Nicholas Panin, PMR Serv.; Dr. Harold Lindenauer, Asst. Ch. Spinal Cord Injury Sect.; Dr. Andor A. Weiss, Ch. Spinal Cord Injury Sect.; Dr. Alfred Ebel, Ch. PMR Serv.; Bronx, N.Y. (8674)

3343. Motion Picture Film Demonstrating the Adaptive Devices Required to Permit Patients with Severe Physical Disabilities to Drive Automobiles Efficiently and Safely.

Alfred Ebel, M.D., Ch. PMR Serv.; Mr. Leo Berner, Ch. Cor. Therapy Sec., PMR Serv.; Mr. Hyman Wettstein, Asst. Ch. Cor. Therapy Sec., PMR Med. Illust. Serv.; Bronx, N.Y. (8676)

3344. Studies Concerning the Decentralized Autonomic Nervous System.

Dr. Harold Lindenauer, Asst. Ch. Spinal Cord Injury Sec.; Dr. Andor A. Weiss, Ch. Spinal Cord Injury Sec.; Dr. Alfred Ebel, Ch. PMR Serv.; Bronx, N.Y. (8677)

3345. Anatomical Localization of Common Vascular Brain Syndromes.

Dr. Milton Holtzman, Ch. PMR Serv., Brooklyn, N.Y.; Dr. Nicholas Panin, Senior Resident, PMR Serv.; Dr. Alfred Ebel, Ch. PMR Serv.; Bronx, N.Y. (8680)

3346. Transabdominal Obturator Neurectomy for Intractable Spasticity.

Harold Haft, M.D., Resident, Neurosurg.; Bernard Perlman, M.D., Resident, Neurosurg.; Erich G. Kruegor, M.D., Ch. Neurosurg. Sec.; Bronx, N.Y. (9067)

3347. Early Symptoms and Signs of Insufficiency of the Internal Carotid Artery.

Joseph Winn, M.D., Ch. Psychiat. and Neur. Serv.; Saul Livant, M.D., Eye Serv.; Brooklyn, N.Y. (8911)

3348. Role of Small Blood Vessels and Nerves with Particular Reference to the Mechanism and Relief of Cardiac Pain.

Joseph T. Roberts, M.D., Ch. Card. Sec.; Buffalo, N.Y. (2983)

3349. Case Report of Chronic Brain Syndrome Due to Islet Cell Adenoma of the Pancreas with Reference to Electroencephalographic Studies.

John F. McGowan, M.D., Ch. Neur. Sec.; Buffalo, N.Y. (2985)

3350. A Study of a Case of Calcification of the Basal Ganglia Idiopathic With Interesting Familial Aspects.

John F. McGowan, M.D., Neur.; Buffalo, N.Y. (2986)

3351. Nucleoprotein Metabolism in Normal, Injured and Stimulated Nerve Cells.

Harold Koenig, M.D., Ph. D., Ch. Neur. Sec.; Chicago (Res.), (3694)

3352. Regeneration of the Facial Nerve in the Rhesus Monkey After Experimental Paralysis and Section of the Intratympanic Portion in the Fallopian Canal and Repair by Nerve Implant and by Rerouting.

Jesse Waller, M.D., Ch. Otolaryng. Sec., VAH; George Shambaugh, Jr., M.D., Cons. Otolaryng., VAH, Prof. Otolaryng., Northwestern Univ.; Eugene Derlacki, M.D., Assoc. Prof. Otolaryng., Northwestern Univ.; Gordon Scott, M.D., Assoc. Otolaryng., Northwestern Univ.; Louis Newman, M.D., Ch. PMR Serv., VAH; Chicago (Res.), Ill. (3672)

3353. The Effect of Diamox and Urea on Increased Intracranial Pressure.

Daniel Ruge, M.D., Attend. Surg., VAH, Assoc. Surg., Northwestern Univ.; Joseph Wells, Ph. D., Prof. Pharm., Northwestern Univ.; Neil Meyer, M.D., Resident Neurosurg., VAH; Chicago (Res.), Ill. (3687)

3354. Histometabolic Studies of the Mammalian Central Nervous System.

Harold Koenig, M.D., Ph. D., Ch. Neur. Sect.; Chicago (Res.), Ill. (3697)

3355. Treatment of Two Cases of Cryptococcus Meningo-Encephalitis with Amphotericin B.

Harold Koenig, M.D., Ph. D., Sec. Ch. Neur.; Morton Silverman, Ph. D., Bact., Clin. Lab. Serv.; Chicago (Res.), Ill. (3699)

3356. Pathological Studies of the Myelopathy Produced by a Pyrimidine Analog 5-Fluoroorotic.

Harold Koenig, M.D., Ph. D., Neur.; Chicago (Res.), Ill. (9088)

3357. Nerve Conduction Studies in Various Neurological Disorders.

Louis B. Newman, M.D., Ch. PMR; Reuben R. Wasserman, M.D., Asst. Ch. PMR; Robert S. Wilson, M.D., Career Resident, PMR; Chicago (Res.), Ill. (9099)

3358. Treatment of Patients with Amyotrophic Lateral Sclerosis with Purine and Pyrimidine Nucleosides.

Harold Koenig, M.D., Ph. D., Ch. Neur. Sect., NP Serv.; Chicago (Res.), Ill. (9112)

3359. Biochemical Studies of the Myelopathy Produced by a Pyrimidine Analog 5-Fluoroorotic Acid.

Harold Koenig, Ph. D., M.D., Ch. Neur; Dorothy Gaines, M.D., Biochem.; Vera Lundin, M.S., Research Asst.; Chicago (Res.), Ill. (9113)

3360. Alteration of Brain Metabolism with Psychological Function.

Jack C. Towne, Ph. D., Asst. Ch. RI Serv., VAH; Theodore Schaefer, Jr., Ph. D., Instr. Psychol., Univ. of Chicago; Theophil Put, M.D., Resident RI Serv., VAH; Chicago (Res.), Ill. (9119)

3361. A Study of the Effects of Cerebral Stimulation on the Electroencephalogram.

Nicholas Wetzel, M.D., Attend., Neurosurg., VAH, Asst. Prof. Surg., Northwestern Univ.; Daniel Ruge, M.D., Attend., Surg., VAH, Assoc., Surg., Northwestern Univ.; Ray Snider, Ph. D., Cons., Neur., VAH, Prof. Anat., Northwestern Univ.; Loyal Davis, M.D., Cons., Surg., VAH, Chm. and Prof., Surg., Northwestern Univ.; Benjamin Boshes, M.D., Cons., Neuropsychiat., VAH, Prof. Neuropsychiat., Northwestern Univ.; Richard Davis, M.D., Res. Surg., VAH; Chicago (Res.), Ill. (9572)

3362. Temperature Regulation—Lesions of the Spinal Cord and Cauda Equina in Man.

Louis B. Newman, M.D., Ch. PMR Serv., VAH; Benjamin Boshes, M.D., Cons., Neuropsychiat., VAH, Prof. Neur. and Psychiat., Northwestern Univ.; Chicago (Res.), Ill. (9573)

3363. Wernicke's Disease in Cirrhosis of the Liver.

Jonas Valaitis, M.D., Asst. Ch. Lab. Serv.; Ona Kotov, B.S., Hist. Tech.; Chicago (W.S.), Ill. (3762)

3364. Cerebral Edema in Insulin Coma.

Melvin G. Goldzband, M.D., Resid. Psychiat. Serv.; Louis Halperin, M.D., Dir. Psychiat. and Neur. Serv.; Chicago (W.S.), Ill. (3776)

3365. Glutamic Oxaloacetic Transaminase, Glutamic Pyruvic Transaminase and Lactic Dehydrogenase in Spinal Fluid.

Virginia Sorum, M.D., Ch. Inpat. Neur. Serv.; Hyman G. Weinstein, M.S., Biochem., Research Lab.; Chicago (W.S.), Ill. (9388)

3366. Clinical Investigation of Urea Solution.

G. Robert Nugent, M.D., Ch. Neurosurg. Serv.; Robert Hayner, M.D., Resident, Neurosurg.; Richard E. Newquist, M.D., Resident, Neurosurg.; Cincinnati, Ohio. (10397)

3367. The Natural History of Multiple Sclerosis.

John F. Kurtzke, M.D., Ch. Neuro. Serv., VAH, Coatesville, Pa.; Benedict Nagler, M.D., Lynchburg Training Sch., Colony, Va.; G. S. Beebe, Ph. D., NRC, Washington, D.C.; L. T. Kurland, M.D., NINDB, Washington, D.C. (3162)

3368. The Relationship Between Exposure Time and Spiral After-image in Intact, Psychotic and Brain Damaged Persons.

John W. Whitmyer, Ph. D., Clin. Psychol; John F. Kurtzke, M.D., Ch. Nuer. Serv., Asst. Dir. Prof. Serv. for Research; Coatsville, Pa. (3164)

3369. The Effects of Chlorpromazine on Hyperphagia in Rats with Lesions of the Medial Hypothalamus.

Charles L. Hamilton, Ph. D., Exper. Psychol.; Coatesville, Pa. (3179)

3370. Food Deprivation and Its Effect on the Thermal Behavior of the Rat.

Charles L. Hamilton, Ph. D., Experiment. Psychol.; Coatesville, Pa. (3193)

3371. On the Spirochetal Etiology of Multiple Sclerosis.

Ralph Myerson, M.D., Asst. Ch. Med. Serv.; John F. Kurtzke, M.D., Ch. Neur. Serv.; Coatesville, Pa. (8748)

3372. Seizures in Schizophrenia.

John F. Kurtzke, M.D., Ch. Neur. Serv., Asst. Dir. Prof. Serv. for Research; Coatesville, Pa. (8749)

3373. Leukopenia Associated With Diphenylhydantoin.

John F. Kurtzke, M.D., Ch. Neur. Serv.; Coatesville, Pa. (8750)

3374. The Use of Cyclohexylamines in Thalamic Pain.

John F. Kurtzke, M.D., Ch. Neur. Serv.; Coatesville, Pa. (9077)

3375. Microbiology in Multiple Sclerosis.

John F. Kurtzke, M.D., Ch. Neur. Serv.; A. Martin, Jr., Ph. D., Microbiol.; R. M. Myerson, M.D., Asst. Ch. Med. Serv; E. L. Yongue, M.D., Ch. Neur. Serv.; Coatesville, Pa. (9078)

3376. Psychological Tests and Brain Damage II: WAIS Digit Symbol Performance and Level of Neurological Lesion.

John W. Whitmyre, Ph. D., Clin. Psychol; John F. Kurtzke, M.D., Ch. Neur. Serv.; Coatesville, Pa. (9411)

3377. A Method of Producing Infraction of Small Blood Vessels by the Effect of a Magnetic Field on Circulating Ferro Magnetic Materials.

August Buermann, M.D., Ch. Neurosurg. Sec.; Alvin S. Blum, Sc. B., Biochem. RI Research; Coral Gables, Fla. (3231)

3378. Effects of Hypothermia on Induced Cerebral Infraction in Animals.

Peritz Scheinberg, M.D., Cons. Neur., VAH, Prof. Neur., Univ. of Miami Sch. Med.; August Buermann, M.D., Ch. Neurosurg. Sec., VAH; Michael P. Goodson, M.D., Resident Neur., Univ of Miami Sch. Med.; Coral Gables, Fla. (3232)

3379. Intraventricular Hypothermia and Its Effect on Body Temperature.

August Buermann, M.D., Ch. Neurosurg. Sec., Surg. Serv.; Curtis G. Wherry, M.D., Resident Gen. Surg.; Thomas J. Kiernan, M.D., Resident Gen. Surg.; Coral Gables, Fla. (8870)

3380. A Survey of Social Factors Contributing to Hospitalization of Neuropsychiatric Patients.

Margaret C. Evje, M.S.S., Ch. Social Worker, Ment. Hygiene Clin., Outpatient Serv.; Lolabel Lord, M.S.S.W., Clin. Social Worker, Ment. Hygiene Clin., Outpatient Serv.; Louis N. Gould, M.D., Ch. Psychiat., Mental Hygiene Clin.; Coral Gables, Fla. (8871)

3381. Derivation of Inner Ear Endolymph and Perilymph.

Daniel M. Martinez, M.D., Asst. Ch. ENT Serv.; Henry C. Lanz, Ph. D., Act. Dir. RI Serv.; Mary S. McCall, Biol. RI Serv.; Dallas, Tex. (3348)

3382. A Preliminary Investigation of the Effectiveness and Safety of Marsilid in the Control of Depressive Reactions.

Hans Neur, M.D., Ch. Neuropsychiat. Serv.; Otto Pertik, M.D., Phys., Neuropsychiat Serv. (deceased); Dayton, Ohio. (3408)

3383. Tentorial Incisure and Cerebral Herniations. Part I. Roentgenographic Demonstration of the Tentorial Opening.

H.F. Plaut, M.D., Act. Ch. Radiol. Serv.; Dayton, Ohio. (12040)

3384. Use of Intravenous Robaxin (Metho-carbamol) in Control of Certain Neurological Conditions.

Richard J. Ireton, M.D., Ch. Surg. Serv., VAC; C. B. Theodotou, M.D., Asst. Instr. Surg., Ohio Stat Univ.; Dayton, Ohio. (12062)

3385. Intracranial Masses Demonstrated by Vertebral Angiograms. Correlation of Lateral, Frontal and Some Axial Views for Typical Locations.

H. F. Plaut, M. D., Act. Ch. Radiol. Serv.; Dayton, Ohio. (12063)

3386. Study of the Behavior of Oligodendroglia in Cases of Multiple Sclerosis.

A. Grinyo, M.D., Sect. Ch. Neur.; Dearborn, Mich. (3454)

3387. Comparison of W–B Test Patterns and EEG Results.

H. B. Malos, Ph. D., Asst. Ch. Psychol. Serv.; Dearborn, Mich. (3462)

3388. Study of Arachnoid Villi.

K. Welch, M.D., Ch. Neurosurg. Serv., VAH; V. Friedman, M.D., Surg. Resident, Colo. Gen. Hosp.; Denver, Colo. (9448)

3389. Effects of Atropine and Physostigmine on Discrimination in Rats.

James M. Whitehouse, M.A., Psychol. Tr.; Lewis Bernstein, Ph. D., Ch. Clin. Psychol., Psychol. Sect.; Denver, Colo. (9449)

3390. Analysis of End Results in the Surgical Treatment in Low Back Pain and Sciatica.

Dr. M. E. Gibbens, Ch. Orth. Sect.; Dr. Keasley Welch, Ch. Neurosurg. Sect.; Dr. J. D. Leidholt, Orth. Sect.; Dr. William Mott, Resident in Orth. Surg.; Denver, Colo. (9450)

3391. Surgical Treatment of Essential Hypertension.

Louis T. Palumbo, M.D., Ch. Surg. Serv.; Alfred N. Smith, M.D., Asst. Ch. Surg. Serv.; Wendell S. Sharpe, M.D., Sect. Ch. Gen. Surg.; Donald J. Lulu, M.D., Asst. Sect. Ch. Gen. Surg.; Des Moines, Iowa. (3527)

3392. The Value of a New Anterior Transthoracic Approach for Sympathetic Denervation of the Heart for Coronary Disease and Angina and for Sympathetic Denervation of the Upper Extremity.

Louis T. Palumbo, M.D., Ch. Surg. Serv.; Wendell S. Sharpe, M.D., Sect. Ch. Gen. Surg.; Seymour W. Shapiro, M.D., Asst. Sect. Ch. Gen. Surg.; Donald J. Lulu, M.D., Asst. Sect. Ch. Gen. Surg.; Des Moines, Iowa. (3531)

3393. A Study of Effects of Sympatholytic and Vagolytic Blocking Agents in Controlling the Dumping Syndrome Following Partial or Total Gastrectomy.

Louis T. Palumbo, M.D., Ch. Surg. Serv.; Wendell S. Sharpe, M.D., Sect. Ch. Gen. Surg.; Des Moines, Iowa. (3532)

3394. Physiological Studies Before and After Upper Dorsal Sympathectomy.

Louis T. Palumbo, M.D., Ch. Surg. Serv.; Donald J. Lulu, M.D., Asst. Sect. Ch. Gen. Surg.; Des Moines, Iowa. (3539)

3395. Reappraisal of the Effects of Lumbar Sympathectomy in the Treatment of Peripheral Vascular Diseases.

Louis T. Palumbo, M.D., Ch. Surg. Serv.; Maurice A. Claman, M.D., Asst. Sect. Ch. Gen. Surg; Donald J. Lulu; M.D., Asst. Sect. Ch. Gen. Surg.; Des Moines, Iowa. (3540)

3396. Special Study on the Sympathetic Pathways to the Eye in Man—Anatomic and Physiologic.

Louis T. Palumbo, M.D., Ch. Surg. Serv; Des Moines, Iowa. (3541)

3397. Evaluation of Sweat Test Patterns Following Various Types of Sympathectomies.

Harry H. Samberg, M.D., Ch. PMR; Louis T. Palumbo, M.D., Ch. Surg. Serv.; Des Moines, Iowa. (3557)

3398. Evaluation of the Effect of Stimulation Upon Paralyzed Muscles in Hemiplegia.

Harry T. Zankel, M.D., Ch. PMR Serv.; Durham, N.C. (3883)

3399. The Effect of Cholinergic and Anticholinergic Drugs Injected into Cortex and Subcortical Regions of Laboratory Animals.

Blaine S. Nashold, M.D., Ch. Neurosurg. Serv.; Durham, N.C. (3917)

3400. Pneumoencephalography and Its Effect on Serum and Cerebrospinal Fluid Electrolytes.

Blaine S. Nashold, Jr., M.D., Ch. Neurosurg. Serv.; William P. Wilson, M.D., Psychiat.; Durham, N.C. (3918)

3401. The Effect of Diamox on the EEG, Serum and Spinal Fluid Electrolytes.

William P. Wilson, M.D., Psychiat.; Blaine S. Nashold, M.D., Ch. Neurosurg. Serv.; Durham, N.C. (3919)

3402. A Comparison of the Electroencephalogram and Electrocorticogram in Persons With Brain Tumors.

William P. Wilson, M.D., Psychiat.; Blaine S. Nashold, Jr., M.D., Ch. Neurosurg. Serv.; Durham, N.C. (3920)

3403. The Effect of Diamox on the Cerebrospinal Fluid Pressure in Man.

Blaine S. Nashold, Jr., M.D., Ch. Neurosurg. Serv.; Durham, N.C. (3921)

3404. The Effect of Acute Hypercapnia on Serum Potassium Levels.

William P. Wilson, M.D., Psychiat.; Durham, N.C. (3931)

3405. Further Observations on the Specificity of the War Neuroses.

Robert L. Green, Jr., M.D., Clin. Invest.; William P. Wilson, M.D., Psychiat.; Durham, N.C. (3934)

3406. Alterations of Beta Activity of the EEG in Known Diseases of the Brain.

Robert L. Green, Jr., M.D., Clin. Invest.; William P. Wilson, M.D., Psychiat.; Durham, N.C. (3936)

3407. The Localizing Value of the Electroencephalogram in Brain Tumor.

Robert L. Green, M.D., Resident Psychiat.; W. P. Wilson, M.D., Psychiat.; B. S. Nashold, M.D., Ch. Neurosurg. Serv.; Durham, N.C. (3937)

3408. Etiologic Factors in Narcolepsy and Hypersomnolent States.

Albert Heyman, M.D., Ch. Neur. Sec.; R. I. Birchfield, M.D., Research Fellow Neur.; H. O. Sieker, M.D., Asst. Ch. Med. Serv.; Durham, N.C. (3948)

3409. Electroencephalographic and Phsyiologic Alterations in Experimentally Induced Syncope.

Albert Heyman, M.D., Ch. Neur. Sec., VAH; J. V. Warren, M.D., Cons. VAH, Prof. Med., Duke Univ.; Durham, N.C. (3950)

3410. Experimental Cerebral Embolism.

Albert Heyman, M.D., Ch. Neur. Sec.; P. N. Strong, Jr., Ph. D., Clin. Psychol.; Durham, N.C. (3952)

3411. Myotonic Dystrophy: Involvement of the Muscles of Respiration and the Effect on Blood Gases.

Albert Heyman, M.D., Ch. Neur. Sec.; Herbert Sieker, M.D., Asst. Ch. Med. Serv.; R. I. Birchfield, M.D., Research Fellow Neur.; John Eagen, Med. Stud.; Durham, N.C. (3954)

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3412. Electroencephalographic Study of Cerebral Vascular Occlusion.

Albert Heyman, M.D., Ch. Neur. Sec.; William P. Wilson, M.D., Psychiat.; Richard Birchfield, M.D., Research Fellow Neur.; Durham, N.C. (3955)

3413. Studies in Allergic Disseminated Encephalomyelitis (ADE).

Dorothy L. Woods, Med. Stud., Duke Univ.; Alexander H. Woods, M.D., Postdoctoral Fellow in Biochem., Duke Univ.; George Margolis, M.D., Cons. VAH, Assoc. Prof. Path., Duke Univ.; Durham, N.C. (3958)

3414. Factors Influencing Electroencephalographic Abnormalities in Hepatic Insufficiency.

Robert E. Whalen, M.D., Asst. Resident in Med., Duke Med. Cent.; Albert Heyman, M.D., Ch. Neur. Sect., VAH; Malcolm P. Tyor, M.D., Ch. GI Sect., VAH; Durham, N.C. (9525)

3415. Alterations in Central Vasomotor Control Associated With Cerebral Vascular Disease.

Albert Heyman, M.D., Ch. Neur. Sect., VAH; K. Tripathy, M.D., Fellow in Med., Duke Med. Cent.; Noble J. David, M.D., Instr. Med., Duke Med. Cent.; Durham, N.C. (9526)

3416. The Degenerative Changes in the Intralaminar Thalamic Nuclei of the Cat and Monkey as the Result of Subcortical Lesions in the Oral Portions of the Thalamus.

Blaine S. Nashold, Jr., M.D., Ch. Neurosurg. Sect.; Durham, N.C. (9527)

3417. Measurement of Tissue Pressure in the Brain.

Blaine S. Nashold, Jr., M.D., Ch. Neurosurg. Sect.; Durham, N.C. (9528)

3418. The Effect of Local Adaptation on Flicker Fusion Thresholds in the Brain-Damaged.

Oscar A. Parsons, Ph. D., Assoc. Prof. Med. Psychol., Duke Med. Cent.; Kenneth Burstein, Stud., Duke Univ.; Durham, N.C. (9529)

3419. Impairment of Visual Discrimination in the Brain-Damaged: The Reliability and Validity of a Method of Flicker Fusion Perimetry.

Oscar A. Parsons, Ph. D., Assoc. Prof. Med. Psychol., Duke Med. Cent.; Durham, N.C. (9530)

3420. The Development of a Simplified Technique of Total Cerebral Arteriography.

Blaine S. Nashold, Jr., M.D., Ch. Neurosurg. Sect.; Durham, N.C. (9531)

3421. Electrodiagnosis and Electromyography in Progressive Muscular Atrophy and Amyotrophic Lateral Sclerosis.

Alex J. Arieff, M.D., Attend. Phys. Neur. Serv., VAH, Assoc. Prof. Neur. and Psychiat., Northwestern Univ. Med. Sch.; Norman B. Dobin, M.D., Attend. Phys. Neur. Serv., VAH, Assoc. Neur. and Psychiat., Northwestern Univ. Med. Sch.; Eli L. Tigay, M.D., Ch. Neur. Serv., VAH; Hines, Ill. (4099)

3422. Investigation of the Effect of Neuropathological Conditions on Esterases.

Joseph Bernsohn, Ph. D., Biochem. Research Serv., VAH; Benjamin J. Boshes, M.D., Cons. Neur., VAH, Chm. and Prof. Dept. Neur. and Psychiat., Northwestern Univ. Med. Sch.; LeRoy Possley, M.S., Biochem. Research Serv., VAH; Hines, Ill. (4263)

3423. Enzymology of the Nervous System.

Joseph Bernsohn, Ph. D., Biochem.; LeRoy Possley, M.S., Biochem.; Hines, Ill. (4264)

3424. Occurrence of Cholinesterases in Bovine Brain.

Joseph Bernsohn, Ph. D., Biochem., Research Serv.; LeRoy Possley, M.S., Biochem., Research Serv.; Hines, Ill. (4265)

3425. A Study of the Survival of the Sympathetic Nervous System After Spinal Cord Injury As Measured by the Sweat Mechanism.

Benjamin J. Boshes, M.D., Cons. Neur., VAH, Chm. and Prof. Neur. and Psychiat., Northwestern Univ. Med. Sch.; Herman Blustein, M.D., Staff Phys., Neur. Serv.; Hines, Ill. (4266)

3426. Distribution of Esterases in Human Brain.

Joseph Bernsohn, Ph. D., Biochem.; LeRoy Possley, M.S., Biochem., VAH; Erich Liebert, M.D., Attend. Phys., Neur. Serv., VAH, Asst. Prof. Neur. and Psychiat., Northwestern Univ. Med. Sch.; Hines, Ill. (4267)

3427. Paraosteoarthropathies in Patients With Spinal Cord Injuries.

Isidore Finkelman, M.D., Attend. Phys., Neur. Serv., VAH, Assoc. Prof., Dept Neur. and Psychiat., Northwestern Univ. Med. Sch.; John R. Finkle, M.D., Staff Phys., Neur. Serv., VAH; Hines, Ill. (4270)

3428. Copper Metabolism in Hepatico-Lenticular Degeneration and in Other Types of Liver Disturbances.

Lewis J. Pollock, M.D., Cons. Neur., VAH, Prof. Emeritus Nerv. and Ment Dis., Northwestern Univ. Med. Sch.; Benjamin J. Boshes, M.D., Cons. Neur., VAH, Prof. Neur. and Psychiat., Northwestern Univ. Med. Sch.; Joseph Bernsohn, Ph. D., Biochem., Research Serv., VAH; Hines, Ill. (4273)

3429. Blood Chemistry in Spinal Cord Injuries.

Alex J. Arieff, M.D., Attend. Phys., Neur. Serv., VAH, Asst. Prof., Dept Neur. and Psychiat., Northwestern Univ. Med. Sch.; Stanley W. Pyzik, M.D., Ch. Spinal Cord Injury Sect., VAH; Joseph Bernsohn, Ph. D., Biochem., Research Serv.; Hines, Ill. (4278)

3430. A Study of Activity of Serum Glutamic Oxaloacetic Transaminase in Cervical Cord Lesions.

Alex J. Arieff, M.D., Attend. Phys., Neur. Serv., VAH, Asst. Prof Neur. and Psychiat., Northwestern Univ. Med. Sch.; Stanley W. Pyzik, M.D., Ch. Spinal Cord Injury Sect., VAH; Joseph Bernsohn, Ph. D., Biochem., Research Serv.; Hines, Ill. (4283)

3431. Clinical Application of a Transistorized Survey Electromyograph.

Theodore Fields, M.S., Radiophys.; George T. Anast, M.D., Resident, Orth. Sect.; Paul A. Schneider, M.D., Resident, Orth. Sect.; Yvo T. Oester, M.D., Ph. D., Act. Dir., RI Serv.; Ervin Kaplan, M.D., Act. Assoc. Dir., RI Serv.; Joseph Kenski, Lab. Electron. Mech.; Hines, Ill. (4345)

3432. The Hippocampus and Conditioning.

Wladimir T. Liberson, M.D., Ph. D., Ch. PMR Serv.; Paul Ellen, Ph. D., Research Psychol.; Virginia P. Gagnon, EEG Techn., Research Serv.; Arthur S. Wilson, Psychol. Tr.; Hines, Ill. (10320)

3433. Study of the Effect of B- B-Methyl-Ethyl Glutarimide (Megimide) as an Activator in EEG of Patients With Clinical Seizures Without EEG Evidence With Ordinary Testing.

Hirsch Wachs, M.D., Resident, Neur. Serv.; Kenesaw M. Mannings, M.D., Staff Phys., Neur. Serv.; Dorothy R. Becka, EEG Tech., Neur. Serv.; Hines, Ill. (10350)

3434. Study of Intramuscular Temperature by Means of Thermister Probe in Muscles Exhibiting Spasticity, Dystrophic Changes, and Acute Inflammatory Reactions.

Hirsh Wachs, M.D., Resident, Neur. Serv.; Hines, Ill. .(10351)

3435. Study of Chemical and Histological Changes Following Transection of Spinal Cord in Cats.

Joseph D. Hoppin, M.D., Staff Phys., Neur. Serv.; Frank DeVincenzo, M.D., Staff Phys., Neur. Serv.; Isidore Finkelman, M.D., Attend. Phys., Neur. Serv., VAH, Assoc. Prof. Neur. and Psychiat., Northwestern Univ. Med. Sch.; Eli Tigay, M.D., Ch. Neur. Serv.; Lewis J. Pollock, M.D., Sr. Cons. Neur. Serv., VAH, Prof. Emeritus, Nerv. and Ment. Diseases, Northwestern Univ. Med. Sch.; Joseph Bernsohn, Ph. D., Biochem.; Hines, Ill. (10352)

3436. Sensory Re-Education in Hemiplegics.

Wladimir T. Liberson, M.D., Ph. D., Ch. PMR Serv.; Paul Ellen, Ph. D., Research Psychol.; Hines, Ill. (10355)

3437. Study of Normal and Pathological Gaits.

W. T. Liberson, M.D., Ph. D., Ch. PMR Serv.; Hines, Ill. (10356)

3438. Studies on Spinal Cord Injury Patients Following Reflex Hypertension Induced by Increasing Intravesical Pressure.

Alex J. Arieff, M.D., Attend. Phys., Neur. Serv., VAH, Assoc. Prof. Neur. and Psychiat., Northwestern Univ. Med. Sch.; Eli Tigay, M.D., Ch. Neur. Serv., VAH; Stanley W. Pyzik, M.D., Ch. Spinal Cord Injury Sec.; Robert G. Taylor, EKG Tech.; Hines, Ill. (10357)

3439. Nerve Conduction Velocity in Normal Individuals and Patients With Lower Motor Neuron Disease.

W. T. Liberson, M.D., Ph. D., Ch. PMR Serv.; Hines, Ill. (10358)

3440. Biopsy of Dog Brain Tissue for the Purpose of Determining the Electrolyte Content and Correlating This With Microscopic Appearance.

Joseph W. Robertson, M.D., Ch. Neurosurg. Sec.; Basil M. Yates, M.D., Resident Neurosurg.; Carl F. Culicchia, M.D., Resident Neurosurg.; Houston, Tex. (8797)

3441. The Nature of the Proteins in Human Cervical Spinal Fluid.

Joe Meyer, Ch. Gen. Med. Research Lab.; Margaret Reisberg, Chem.; Abraham Bingle, Ch. Neur. Sec.; Houston, Tex. (10960)

3442. Electroencephalographic Studies in a VA Outpatient Clinic.

R. M. Wylie, M.D., Ch. Clin. Phy. Sec., Lab. Serv.; T. J. Holbrook, M.D., Cons. Neurosurg.; Huntington, W. Va. (4815)

3443. Electrical Examination of the Muscles and Nerves Involved in Root Pressure Syndrome Due to Herniated Intervertebral Disc.

David M. Paul, M.D., Ch. PMR; William D. Jahnke, M.S., Ch. Phys. Therap., PMR Service; Wayne Paustian, B.S., Asst. Ch. Phys. Therap., PMR Serv.; Iowa City, Iowa. (4854)

3444. Electromyography of Stapedius Muscle in Cases of Otosclerosis.

Eugene L. Grandon, M.D., Ch. Otolaryngology; Maurice W. Van Allen, M.D., Ch. Neur. Sect.; Iowa City, Iowa. (4871)

3445. Correlation of Behavioral Response with Spontaneous Electrical Activity of the Hypothalamus.

George W. Brown, Ph. D., Prin. Scien. Gen. Med. Research Lab.; Iowa City, Iowa. (4877)

3446. Electromyography of the Extraocular Muscles with Reference to the Nature of Muscular Action at the Moment of Binocular Visual Fusion.

Maurice W. Van Allen, M.D., Ch. Neur. Sect.; Frederick C. Blodi, M.D., Ch. Ophth.; Iowa City, Iowa. (4880)

3447. Neurophysiologic Implications of Magnesium Deficiency in Rats. (A Pilot Study.)

Maurice W. Van Allen, M.D., Ch. Neur. Sect.; Daniel H. Hug, Ph. D., Ch. Bact., Gen. Med. Research Lab.; Iowa City, Iowa. (8551)

3448. Effect of Chronic Anoxia on the Brain.

William E. Ruth, M.D., Clin. Invest., VAH; Charles Poser, M.D., Assoc. Prof. Med., Univ. of Kans.; Charles E. Andrews, M.D., Ch. Med. Serv., VAH; William R. Bradley, Med. Stud., Univ. Kansas; Kansas City, Mo. (4954)

3449. Conditioning and Memory in the Korsakoff.

Richard M. Griffith, Ph. D., Ch. Research Psychol.; Lexington, Ky. (5052)

3450. Development of a Technique for the Paper Electrophoretic Study of Spinal Fluid.

Eugene J. Towbin, M.D., Ph. D., Med. Serv.; Little Rock, Ark. (5066)

3451. The Electrophoretic Distribution of Protein and Lipoprotein in the Spinal Fluid of the Diabetic Patient.

Eugene J. Towbin, M.D., Ph. D., Med. Serv., VAH; Ben I. Heller, M.D., Cons. VAH, Prof. Med., Univ. of Arkansas; Little Rock, Ark. (5067)

3452. Cerebral Arteriography in the Dog; a Method for the Visualization of Experimentally Induced Changes in Cerebral Circulation.

Eugene J. Towbin, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research, VAH; David Gould, M.D., Prof. Radiol., Univ. of Arkansas Sch. of Med.; Little Rock, Ark. (5069)

3453. Lobotomy Research.

Frances Howard, M.D., Staff Psychiat.; Philip S. Henderson, Ph. D., Staff Psychol.; Little Rock (No. Little Rock Div.), Ark. (6627)

3454. Acquisition and Extinction of Fixated Behavior in Permanent but Minimally Brain-Damaged Rats.

Oddist D. Murphree, Ph. D., Prin. Scien, NP Research; Chalmers S. Pool, M.D., Ch. Radiol. Serv.; Thomas T. Frost, M.D., Ch. Path.; Little Rock (No. Little Rock Div.), Ark. (6636)

3455. Investigation of the Site of Action of Pharmacological Agents in the Central Nervous System (Part III).

Keith F. Killam, Ph. D., Research Anat., Univ. of California at Los Angeles; Eva King Killam, Ph. D., Research Anat., Univ. of California at Los Angeles; J. D. French, M.D., Asst. Dir. Prof. Serv. for Research, VAH; Eduardo Eidelberg, M.D., Research Anat., Univ. of California at Los Angeles Med. Sch.; Long Beach, Calif. (5201)

3456. The Reticular Formation and Neuroendocrine Function as Related to Pituitary Gonadotrophin.

C. H. Sawyer, Ph. D., Cons. VAH, Prof. Anat., Univ. of California at Los Angeles Med. Sch.; J. D. French, M.D., Asst. Dir. Prof. Serv. for Research, VAH; Long Beach, Calif. (5205)

3457. Effect of Alcohol on Pituitary Activation.

C. A. Barraclough, Ph. D., Research Anat., Univ. of California at Los Angeles; C. H. Sawyer, Ph. D., Cons. VAH, Prof. Anatomy, Univ. of California at Los Angeles Med. Sch.; J. D. French, M.D., Asst. Dir. Prof. Serv. for Research, VAH; Long Beach, Calif. (5206)

3458. Induction of Lactation in the Rabbit with Reserpine.

C. H. Sawyer, Ph. D., Cons. VAH, Prof. Anat., Univ. of California at Los Angeles Med. Sch.; C. A. Barraclough, Ph. D., Research Anat., Univ. of California at Los Angeles; J. D. French, M.D., Asst. Dir. Prof. Serv. for Research, VAH; Long Beach, Calif. (5207)

3459. Nucleic Acid and Amino Acid Metabolism in Muscular Dystrophy.

Kathryn Fink, Ph. D., Biochem., VAH; Robert M. Fink, Ph. D., Non-Med. Cons. VAH, Assoc. Prof. Phy. Chem., Univ. of California at Los Angeles; Albert Williams, Ph. D., Research Assoc. Biochem., Univ. of California at Los Angeles; Long Beach, Calif. (5209)

3460. Role of the B-wave of the Electroretinogram.

D. B. Lindsley, Ph. D., Cons. VAH, Prof. Psychol. and Phy., Univ. of California at Los Angeles Med. Sch.; R. S. Griffiths, M.A., Research Psychol., Univ. of California at Los Angeles Med. Sch.; J. D. French, M.D., Asst. Dir. Prof. Serv. for Research, VAH; Long Beach, Calif. (5215)

3461. Central Nervous System Influences on Muscle Spindle Activity.

E. Eldred, M.D., Cons. VAH, Asst. Prof. Anat., Univ. of California at Los Angeles Med. Sch.; J. D. French, M.D., Asst. Dir. Prof. Serv. for Research, VAH; Long Beach, Calif. (5218)

3462. Investigations on a Rhinencephalic-Hypothalamic "Emotional Arousal System."

M. Kawakami, M.D., Research Anat., Univ. of California at Los Angeles, Med. Sch.; C. H. Sawyer, Ph. D., Cons. VAH, Prof. Anat., Univ. of California at Los Angeles Med Sch.; J. D. French, M.D., Asst. Dir. Prof. Serv. for Research, VAH; Long Beach, Calif. (5222)

3463. Some Aspects of Basal Ganglionic Interrelationships.

N. A. Buchwald, Ph. D., Cons., VAH, Research Anat., Univ. of California at Los Angeles Med. Sch.; H. H. Wieck, M.D., Research Anat., Univ. of California at Los Angeles Med. Sch.; J. D. French, M.D., Asst. Dir. Prof. Serv. for Research, VAH; Long Beach, Calif. (5223)

3464. Investigations of Temporal Lobe and Basal Ganglionic Functions in Production of Tremor and Abnormal Movements.

W. R. Adey, M.D., Attend. VAH, Prof. Anat., Univ. of California at Los Angeles; N. A. Buchwald, Ph. D., Cons. VAH, Research Anat., Univ. of California at Los Angeles; J. D. French, M.D., Asst. Dir. Prof. Serv. for Research, VAH; Long Beach, Calif. (5224)

3465. Hypothalamic Potentials Evoked by Differential Somatic and Visceral Afferent Stimulation.

Robert W. Porter, M.D., Ch. Neurosurg. Sect., VAH; Shaul Feldman, M.D., Research Neur., Univ. of California at Los Angeles Med. Sch.; Long Beach, Calif. (5225)

3466. Development of Objective Performance Testing Methods for Parkinsonism Patients with Special Reference to Pre- and Postoperative Performance of Chemopallidectomized Patients.

F. W. S. Modern, M.D., Ch., PMR Serv.; William R. Porter, M.D., Ch. Neurosurg. Sect.; Doris Kroulek, Ch. Occupational Therapy Sect.; Long Beach, Calif. (8841)

3467. Long Latency Responses Evoked in the Anterior Brain Stem Under Deep Pentobarbital Anesthesia.

Robert W. Porter, M.D., Ch. Neurosurg., VAH; Shaul Feldman, M.D., Junior Research Neur., Univ. of California at Los Angeles Med. Sch.; Long Beach, Calif. (10734)

3468. A Study of Extrapyramidal Function with Respect to the Hyperkinetic Disorders.

Robert W. Porter, M.D., Ch. Neurosurg.; William Hyman, M.D., Resident, Neurosurg.; Long Beach, Calif. (10773)

3469. Mechanisms of Epileptic Discharge.

John D. French, M.D., Asst. Dir. Prof. Serv. for Research, VAH; Eduardo Eidelberg, M.D., Asst. Research Prof. of Anat., Univ. of California at Los Angeles Med. Sch.; Long Beach, Calif. (10779)

3470. Basic Studies of the Central Nervous System.

Frederick J. Wolfgram, Ph. D., Asst. Research Neur., Univ. of California at Los Angeles Med. Center; Augustus S. Rose, M.D., Cons. Neur., VAC, Prof. Med., Univ. of California at Los Angeles Med. Center; William H. Oldendorf, M.D., Assoc. Ch. Neur. Sect., VAC; Clinton A. Olmsted, Ph. D., Research Neur., Univ. of California at Los Angeles Med. Center; Los Angeles, Calif. (5778)

3471. Cerebral Vascular Disease Studies.

Harry C. H. Fang, M.D., Attend Neur., VAC, Asst. Prof. Med., Univ. of California at Los Angeles Med. Center; Augustus S. Rose, M.D., Cons. Neur., VAC, Prof. Med., Univ. of California at Los Angeles Med. Center; Wilbur Schwartz, M.D., Phys., VAC; Richard D. Walter, M.D., Attend Neur., VAC, Asst. Prof., Med, Univ. of California at Los Angeles Med. Center; Robert N. Baker, M.D., Ch. Neur. Sect., VAC; Los Angeles, Calif. (5779)

3472. A Study of the Behavioral and Electrical Events Prior to and During the Early Phase of Generalized Seizures in Man.

Augustus S. Rose, M.D., Cons. Neur., VAC, Prof. Med., Univ. of California at Los Angeles Med. Center; Richard Walter, M.D., Asst. Prof. Med., Univ. of California at Los Angeles, Med. Center; Frank Risch, Ph. D., Ch. Epilepsy Rehab. Serv., VAC; Los Angeles, Calif. (5788)

3473. Community Plan for Epilepsy.

Frank Risch, Ph. D., Ch. Epi. Rehab. Serv., VAC; Augustus S. Rose, M.D., Sr. Cons. Neur., VAC, and Prof. Med. (Neur.), UCLA-Med. Cent.; Los Angeles, Calif. (5789)

3474. Myelinization Studies of the CNS.

Augustus S. Rose, M.D., Cons. Neur., VAC, Prof. Med., Univ. of California at Los Angeles Med. Center; Clinton A. Olmstead, Ph. D., Research Neur., Univ. of California at Los Angeles Med. Center; William H. Oldendorf, M.D., Assoc. Ch. Neur. Sect., VAC; Los Angeles, Calif. (5790)

3475. A Psychological Study of the Factors Affecting the Course of Cerebral Vascular Disease.

F. Risch, Ph. D., Ch. Epilepsy Rehab. Serv., VAC; A. S. Rose, M.D., Cons. Neur., VAC, Prof. Med., Univ. of California at Los Angeles Med. Center; Los Angeles, Calif. (5792)

3476. Roentgenological Study: To Establish the Incidence of Dorsal Vertebrae Compression in Patients Who Have Had Grand Mal Convulsions.

W. H. Oldendorf, M.D., Ch. Neur., Domiciliary Sect.; Los Angeles, Calif. (5793)

3477. Studies in Primary Muscle Disease.

W. H. Blahd, M.D., Ch. RI Serv.; N. Baker, Ph. D., Prin. Scien. and Asst. Ch. Scien. Sect. RI; Los Angeles, Calif. (5871)

3478. O_2 Consumption of Muscle and Kidney From Hereditary Muscular Dystrophic Mice.

N. Baker, Ph. D., Asst. Ch. Scien. Sect., RI Serv.; W. H. Blahd, M.D., Ch. RI Serv.; Los Angeles, Calif. (5878)

3479. Determination of Cerebral Circulation With the Use of Radioactive Tracers.

P. H. Crandall, M.D., Attend. Neurosurg., VAC, Asst. Prof. of Surg., Univ. of California at Los Angeles Med. Center; B. Cassen, Ph. D., Cons. RI Serv., VAC, Dept. of Nuclear Med. and Rad. Biol., Univ. of California at Los Angeles Med. Center; W. H. Blahd, M.D., Ch. RI Serv., VAC; Los Angeles, Calif. (5879)

3480. The Hormonal Aspects of Vascular Diseases of the Brain.

Jessie Marmorston, M.D., Clin. Prof. Med., Univ. of Southern California Sch. of Med.; Augustus S. Rose, M.D., Cons. Neur., VAC, Prof. Med., Univ. of California at Los Angeles; Robert N. Baker, M.D., Ch. Neur. Sect., VAC; Harry C. H. Fang, M.D., Attend. Neur., VAC, Asst. Prof. Med., Univ. of California at Los Angeles Med. Center; Oscar Magidson, M.D., Assoc. Clin. Prof. Med., Univ. of Southern California Sch. of Med.; Los Angeles, Calif. (5843)

3481. Biosynthesis of Pharmacologically Active Amines in Cephalopods.

William J. Hartman, Ph. D., Asst. Research Phys. Chem., Univ. of California at Los Angeles Med. Center; William G. Clark, Ph. D., Sect. Ch. Phys.-Pharm., VAC; Los Angeles, Calif. (8445)

3482. Cervical Spondylosis—Clinical Features and a Recent Advance in Surgical Treatment (Exhibit).

Paul H. Crandall, M.D., Attend. Neurosurg., VAC, Asst. Prof. Surg., UCLA-Med. Cent.; Robert W. Rand, M.D., Attend. Neurosurg., VAC, Asst. Prof. of Surg., UCLA-Med. Cent.; James G. Davis, M.D., Ch. Radiol., VAC; William N. Hanafee, M.D., Asst. Prof. Radiol., UCLA-Med. Center; Los Angeles, Calif. (8852)

3483. An Intravenous Radioisotope Technique for Determining Cerebral Circulation Time.

William H. Oldendorf, M.D., Assoc. Ch. Neur. Sect.; Robert A. Nordyke, M.D., Asst. Ch. Clin. Sect., RI Serv.; Los Angeles, Calif. (8853)

3484. Comparison of the Ankle Jerk by Percussion with Gastro-Soleus Contraction Using a Square Wave.

Israel Muss, M.D., Ch. PMR; Louisville, Ky. (10767)

3485. Comparison of the Ankle Jerk by Percussion with Gastro-Soleus Contraction Using a Square Wave.

Israel Muss, M.D., Ch. PMR; Louisville, Ky. (10767)

3486. Comparison of Manual Testing with Quantitative EMG Pattern.

Israel Muss, M.D., Ch. PMR; Louisville, Ky. (10768)

3487. The Normal EMG Pattern of the Ankle Jerk by Percussion and Correlation with Electric Stimulation of the Gastroc-Soleus.

Israel Muss, M.D., Ch. PMR; Louisville, Ky. (10769)

3488. Evaluation of SOMA and a Double-Blind Study with Placebos on SOMA as a Muscle Relaxant.

Israel Muss, M.D., Ch. PMR; Joseph B. Brill, M.D., Resident Med.; Louisville, Ky. (10770)

3489. Clinical Testing of Anti-Convulsant Substances, Methaminophenylpyridone and Methyl-Ethyl-Phenyl-Piperidone.

Harry Oestreicher, M.D., Act. Ch. Neur. Serv.; Lyons, N.J. (10707)

3490. Hypothalamic Function.

Hans G. Bauer, M.D., Phys. Intermed. Serv.; Martinsburg, W. Va. (5888)

3491. Glucose Oxidase as a Reagent in the Determination of Glucose and Fructose in Blood.

Frank S. Schlenker, Ph. D., Dir. Biochem. Research Sect.; Memphis, Tenn. (5971)

3492. Pain Threshold and Rorschach Evaluation Before and After Spinothalamic Tractotomy.

Alfred D. Mueller, Ph. D., Ch. Psychol. Serv.; Charles D. Scheibert, M.D., Ch. Neurosurg. Sect.; Memphis, Tenn. (6095)

3493. Does Gibberellic Acid Influence Spinal Cord Repair?

Benjamin A. Moeller, Jr., M.D., Ch. Spinal Cord Injury Serv.; Malcolm V. Parker, M.S., Research Tech., Med. Research Lab.; Wolcott B. Dunham, M.D., Dir. Med. Research Lab.; Memphis, Tenn. (9024)

3494. Evaluation of Training in Self-Care Following Spinal Cord Injury.

Junia E. Swanson, B.S., Ch. Phys. Therapy Sec.; Memphis, Tenn. (10472)

3495. A Study on the Innervation of the Triceps Muscle.

Leo Betzelberger, B.S., Asst. Ch. Phys. Therapy Sect., PMR; Memphis, Tenn. (10474)

3496. Response of Patients with Delirium Tremens to Therapy with Magnesium Sulfate.

Edmund B. Flink, M.D., Ph. D., Ch. Med Serv.; Robert J. McCollister, M.D., Resident Med. Serv., VAH; Thomas M. Recht, M.D., Resident Fellow Med., Univ. of Minnesota; Mary D. Lewis, B.S., Junior Sci., Univ. of Minnesota; Minneapolis, Minn. (6163)

3497. Test-Retest Records for 100 Aphasic Patients.

Hildred M. Schuell, Ph. D., Dir. Aphasic Div.; Minneapolis, Minn. (6242)

3498. Sound Fusion Frequency Testing.

David D. Webster, M.D., Staff Phy. Neur. Sect.; Ernest S. Tremayne, Research Electronic Develop. Tech.; Minneapolis, Minn. (6244)

3499. EEG and Visual Display System.

David D. Webster, M.D., Staff Phys., Neur. Sect.; Ernest S. Tremayne, Research Electron. Develop. Tech.; Minneapolis, Minn. (6245)

3500. EEG Auditory Study System.

David D. Webster, M.D., Phys., Neur. Sect.; Ernest S. Tremayne, Electronic Develop. Tech.; Minneapolis, Minn. (6246)

3501. A Dynamic Study of Muscular Rigidity and Related Conditions.

David D. Webster, M.D., Phys. Neur. Sect.; Minneapolis, Minn. (6247)

3502. Exploration of the Mechanism of Demyelinization.

Harold Berris, M.D., Staff Phys., Neur. Sect.; Minneapolis, Minn. (6248)

3503. The Relationship Between Hearing Loss and Impairment of Comprehension in Aphasia.

Ruby Simmons, M.A., Language Retraining Instr., Aphasia Div.; Minneapolis, Minn. (6251)

3504. The Nature of Language Deficit in Aphasia.

Hildred M. Schuell, Ph. D., Dir. Aphasia Div., Neur. Sect., VAH; James J. Jenkins, Ph. D., Attend. VAH, Prof. Psychol., Univ. Minnesota; Minneapolis, Minn. (6252)

3505. The Effect of Vasodilators on the Complications of Carotid and Vertebral Angiography.

David D. Webster, M.D., Phys. Neur. Sect.; Edward Jimenez-Pabon, M.D., Phys. Neur. Sect.; Minneapolis, Minn. (6253)

3506. The Effect of Carotid Angiography and EEG on Cardiac Rhythm.

David D. Webster, M.D., Phys. Neur. Sect.; Bruce W. Schultz, EEG Tech.; Edward Jimenez-Pabon, M.D., Phys. Neur. Sect.; Minneapolis, Minn. (6254)

3507. Electroencephalographic Correlates of the Negative After-image of Apparent Movement.

Bruce W. Schultz, EEG Tech.; Jerome D. Schein, Ph. D., Clin. Psychol. Tr.; Minneapolis, Minn. (6255)

3508. Correlation of Pathological Lesions With Electroencephalographic Changes.

Harold Berris, M.D., Attend. VAH, Asst. Prof. Neur., Univ. Minnesota; Bruce W. Schultz, Electroencephal. Tech., VAH; Minneapolis, Minn. (6257)

3509. The Relationship Between Impairment of Auditory Work Recognition in Aphasia and Word Frequency.

Lydia Landis, B.A., Language Retraining Instr., Aphasia Div.; Minneapolis, Minn. (6258)

3510. Quantitative Evaluation of Anti-spastic Drugs.

David D. Webster, M.D., Staff Phys. Neur. Sect., VAH; Thomas W. Wood, A.B., Lab. Tech., Univ. of Minnesota; Minneapolis, Minn. (8603)

3511. Auditory Imperception in Aphasia.

Hildred M. Schuell, Ph. D., Dir. Aphasia Div., Neur. Sect.; Minneapolis, Minn. (9831)

3512. Auditory Impairment in Aphasia.

Hildred M. Schuell, Ph. D., Dir. Aphasia Div., Neur. Sect.; Ruby Simmons, M.A., Language Retrain. Instr., Aphasia Div., Neur. Sect.; Lydia Landis, B.A., Language Retrain. Instr., Aphasia Div.; Minneapolis, Minn. (9832)

3513. Diagnosis and Prognosis in Aphasia.

Hildred M. Schuell, Ph. D., Dir. Aphasia Div., Neur. Sect.; Minneapolis, Minn. (9833)

3514. Evaluation of Surgical Procedure Designed to Eliminate Symptoms in Parkinson's Disease and Chorea.

David D. Webster, M.D., Staff Phys. Neur. Sect.; Minneapolis, Minn. (9834)

3515. Analysis of Resting and Positional Tremors in Health and Disease.

David D. Webster, M.D., Staff Phys. Neur. Sect.; Ernest S. Tremayne, Research Electronic Devel. Tech.; Minneapolis, Minn. (9835)

3516. Social Factors Related to Re-hospitalization of Patients with Multiple Sclerosis.

Sally N. Hydukovich, M.S.W., Clin. SW (Neur.); Minneapolis, Minn. (9836)

3517. The Examination of the Cerebro Spinal Fluid in Patients With Schizophrenia for the Presence of a Bradykinin Liberating Enzyme.

Loring Chapman, Ph. D., Psychol., Cornell Univ. Med. Coll.; Thomas Parsons, M.D., Neur., VAH; Harold Wolff, M.D., Prof. of Psychiat., Cornell Univ. Med. Coll.; Montrose, N.Y. (5300)

3518. Extra-ocular Motor Disturbances in Primary Brain Tumors.

Thomas C. Parsons, M.D., Neur.; Montrose, N.Y. (5329)

3519. The Paper Electrophoretic Pattern of Cerebro Spinal Fluid Protein in Diseases of the Central Nervous System.

Thomas C. Parsons, M.D., Neur.; Philip Tabenkin, B.A., Chem.; Montrose, N.Y. (5331)

3520. Evaluation of an Anti-Bradykinin Enzyme (Chymotrypsin) in Schizophrenia.

Loring Chapman, Ph. D., Psychol., Cornell Univ. Med. Coll.; Thomas Parsons, M.D., Neur., VAH; Harold Wolff, M.D., Prof. Psychiat., Cornell Univ. Med. Coll.; Montrose, N.Y. (10869)

3521. Language Impairment in Brain-Injured Patients.

Bernard Locke, Ph. D., Ch. Psychol. Serv.; Sam J. Korn, B.S., Research Psychol. Tr.; Glen Brennan, B.S., Research Psychol. Tr.; New York, N.Y. (6530)

3522. The Analgesic Effect of CI–401 (1 phenyl cyclo hexylamine monohydrochloride) in Patients With Severe Pain.

Arthur F. Battista, M.D., Attend. Neurosurg.; Luisito Guanlao, M.D., Resident Neurosurg.; New York, N.Y. (11020)

3523. Biochemical Studies of the Metabolism of Nerve Cells in Animals.

Angelo Carra, M.D., Asst. Dir. Prof. Serv.; Philip Gussion, M.D., Ch. Acute Intensive Treatment Serv.; Andrew Kuna, Ph. D., Biochem.; John J. Scimone, B.S., Bact.; Northport, N.Y. (8387)

3524. Amyotrophic Lateral Sclerosis—Blood Group Study.

Irving J. Blumenthal, M.D., Neur. Clinic; Northport, N.Y. (8713)

3525. Plasma Lipids in Patients With Multiple Sclerosis.

Bruno Gerstl, M.D., Ch. Lab. Serv.; James K. Smith, M.D., Ch. Psychiat. and Neur. Serv.; M. Jeanne Kahnke, Ph. D., Biochem., Lab. Serv.; Oakland, Calif. (6641)

3526. The Composition of Lipids of Red Blood Cells in Multiple Sclerosis Patients.

Bruno Gerstl, M.D., Ch. Lab. Serv.; James K. Smith, M.D., Ch. Psychiat. and Neur. Serv.; M. Jeanne Kahnke, Ph. D., Biochem., Lab. Serv., Oakland, Calif. (6642)

3527. A Study of the Spinal Fluid During Phenothiazine Therapy.

James K. Smith, M.D., Ch. Psychiat. and Neur. Serv.; Ivan Edmister, M.D., Ch. Psychiat. Sect.; Oakland, Calif. (6644)

3528. Research in Aging. Study of Spinal Fluid Changes in Old Age.

James K. Smith, M.D., Ch. Psychiat. and Neur. Serv.; Bruno Gerstl, M.D., Ch. Lab. Serv.; Oakland, Calif. (10187)

3529. The Brain Lipids in Patients With Multiple Sclerosis.

Bruno Gerstl, M.D., Ch. Lab. Serv.; James K. Smith, M.D., Ch. Psychiat. and Neur. Serv.; Oakland, Calif. (10188)

3530. Phosphate Uptake by Dystrophic and Normal Rabbit Muscle.

Philip C. Johnson, M.D., Ch. RI Serv.; Yanna F. Masters, Tech., VAH; Ranwel Caputto, M.D., Assoc. Prof. Research and Biochem., Oklahoma, Univ. Med. Sch.; Oklahoma City, Okla. (10023)

3531. Role of Magnesium in Myasthenia Gravis.

William O. Smith, M.D., Asst. Ch. RI Serv.; Chesterfield G. Gunn, M.D., Attend. Phys.; Donald J. Baxter, Tech.; Oklahoma City, Okla. (10024)

3532. Intracellular Magnesium in Delirium Tremens and Uremia.

William O. Smith, M.D., Asst. Ch. RI Serv.; James F. Hammarsten, M.D., Ch. Med. Serv.; Oklahoma City, Okla. (10025)

3533. Potentiation of Barbiturate Action by Serotonin.

Arthur L. Dunn, Ph. D., Asst. Ch. Scien. RI Serv.; Fred L. Humoller, Ph. D., Prin. Scien. Med. Research Lab.; Richard E. Ogborn, M.D., Ch. RI Serv.; Omaha, Nebr. (6780)

3534. Effects of Bilateral Superior Cervical Ganglionectomy on Cerebral Blood Flow of Dogs.

Richard T. Shackelford, M.D., Ch. Surg. Serv.; Stephen K. Hegedus, M.D., Research Tech. (Surg.); Perry Point, Md. (6961)

3535. A Continuing Study of Psychiatric, Psychological, and Physiological Factors in Multiple Sclerosis.

R. Burke Suitt, M.D., Psychiat. Cons. Serv.; Clinton Brown, Ph. D., Dir. Psychophy. Research; Perry Point, Md. (6968)

3536. Comparative Anatomy of the Cerebral Circulation in Experimental Animals and the Method of Determining Cerebral Blood Flow.

Richard T. Shackelford, M.D., Ch. Surg. Serv.; Stephen K. Hegedus, M.D., Research Tech. (Surg.); Perry Point, Md. (10557)

3537. Electrical Responses of Albumin and Gelatin: Bioelectric Activity or Electrode Artifact?

Fred L. Royer, Ph. D., Ch. Animal Studies, Psychol.; Clara H. Williams, Ph. D., Ch. Biochem.; Perry Point, Md. (10582)

3538. Construction of a Calvarium Lucidum.

Stan. A. Ziemonwicz, M.D., Neurosurg.; Perry Point, Md. (10558)

3539. An Investigation into the Possible Relationship of a Spirochete to Multiple Sclerosis.

Ralph M. Myerson, M.D., Asst. Dir. Prof. Serv. for Research and Asst. Ch. Med Serv.; Stanley W. Wolfson, B.S., Bact. Med. Research Lab.; Theodore Sall, Ph. D., Microbiol. Med. Research Lab.; Philadelphia, Pa. (7122)

3540. The Clinical Application of Electro-Physiology in Diseases of Nerves and Muscles.

Robert A. Schlesinger, M.D., Ch. PMR Dept.; Ralph M. Myerson, M.D., Asst. Ch. Med. Serv. and Asst. Dir. Prof. Serv. Research; Philadelphia, Pa. (9939)

3541. The Demonstration of the Carotid and Vertebral Arteries in the Neck by Intravenous Angiography.

William F. Bouzarth, M.D., Ch. Neurosurg. Sec.; George T. Wohl, M.D., Ch. Radiol. Serv. and Ch. RI Serv.; Philadelphia, Pa. (9940)

3542. Histochemical and Fluorescent Studies of the Central Nervous System With Special Reference to the Glial Tissue and Ground Substance.

Martha D. Vasquez, M.D., Ch. Lab. Serv.; Pittsburgh (Leech Farm Rd.), Pa. (6991)

3543. The Bacterial Flora of Cerebrospinal Fluid.

Albert Martin, Jr., Ph. D., Microbiol.; Eugene L. Youngue, M.D., Ch. Neur. Serv.; Paul F. Kost, Ph. D., M.D., Ch. PMR; Pittsburgh (Leech Farm Rd.), Pa. (6993)

3544. Repair of Pachymenigeal Defects with Sterile or Sterilized Freeze Dried Dura Mater.

Hubert L. Rosomoff, M.D., Ch. Neurosurg.; Pittsburgh (Univ. Dr.), Pa. (11086)

3545. Mechanism of Brain Injury.

Hubert L. Rosomoff, M.D., Ch. Neurosurg.; Pittsburgh (Univ. Dr.), Pa. (11087)

3546. The Efficacy of 30-Percent Urea as an Adjunct for Controlling Intracranial Pressure.

J. L. Ulmer, M.D., Ch. Neurosurg.; W. M. Eagles, M.D., Asst. Ch. Neurosurg.; Richmond, Va. (9909)

3547. Diencephalic Seizure Discharges in Patients with Peptic Ulcer.

Nancy D. Walke, Ch. Electro-encephalogram Tech., Neuropsychiat. Serv.; Andrew Davis, M.D., Ch. Neuropsychiat. Serv., Richmond, Va. (9910)

3548. Diencephalic Seizure Discharges in Patients with Peptic Ulcer.

Nancy D. Walke, Ch. Electro-encephalogram Tech., Neuropsychiat. Serv.; Andrew Davis, M.D., Ch. Neuropsychiat. Serv.; Richmond, Va. (9911)

3549. A Study of Tuberculosis Antibodies by the Parlett and Youmans Agar Double Diffusion Precipitation Technique.

Edward F. O'Neill, Lab. Research Bact.; Savino DiGregorio, M.D., Med. Serv.; Ward Phys.; Rutland Heights, Mass. (7282)

3550. The Acquisition of Conditioned Responses at Various Levels of Consciousness in Cats.

Edward C. Beck, Ph. D., Phys. Psychol.; Salt Lake City, Utah. (7305)

3551. Critical Flicker Frequency in Control and Patient Groups.

Kenneth A. Kooi, M.D., Dir. EEG Lab.; Reed S. Boswell, Ph. D., Research Psychol., VAH; Madison H. Thomas, M.D., Assoc. Clin. Prof. Psychiat., Univ. of Utah; Salt Lake City, Utah. (7306)

3552. The Effects of Brain Stem Lesions on the Acquisition and Retention of Conditioned Response.

Edward C. Beck, Ph. D., Phy. Psychol., Salt Lake City, Utah, VAH; Robert W. Doty, Ph. D., Assoc. Prof. Phy., Univ. of Michigan, Coll. of Med.; Kenneth A. Kooi, M.D., Dir. EEG Lab., VAH; Salt Lake City, Utah. (7307)

3553. MMPI Profile of Epileptics.

H. Birnet Hovey, Ph. D., Psychol. Serv.; Kenneth A. Kooi, M.D., Dir. EEG Lab.; Madison H. Thomas, M.D., Ch. Neur. Serv.; Salt Lake City, Utah. (7313)

3554. A Battery of Psychophysical Tests in the Diagnosis and Evaluation of Brain Damage.

Edward C. Beck, Ph. D., Phy. Psychol.; Kenneth A. Kooi, M.D., Dir. EEG Lab.; Salt Lake City, Utah. (7314)

3555. Subcortical Stimulation and Conditioning.

Edward C. Beck, Ph. D., Phy. Psychol., VAH; Joseph C. Sharp, B. S., Dept. Psychol., Univ. of Utah; Paul B. Porter, Ph. D., Cons. VAH, Assoc. Prof. Psychol., Univ. of Utah; Salt Lake City, Utah. (7315)

3556. Electronic Analysis of Cerebral Responses to Photic Stimulation in Patients With Brain Damage.

Kenneth A. Kooi, M.D., Dir. EEG Lab.; Madison H. Thomas, M.D., Ch. Neur. Serv.; Salt Lake City, Utah. (7316)

3557. Cortical and Subcortical Electrophysiological Reactions in Trace Conditioning.

Edward C. Beck, Ph. D., Phy. Psychol.; Mark Rudnik, M. A., Phy. Psychol. Tr.; Salt Lake City, Utah. (7319)

3558. The Effects of Encephalopathy Upon Visual, Auditory, and Tactile Illusions.

John R. Newbrough, Ph. D., Clin. Psychol. Tr.; Edward C. Beck, Ph. D., Phy. Psychol.; Salt Lake City, Utah. (7320)

3559. Management of Single Seizures.

Madison H. Thomas, M.D., Ch. Neur. Serv.; Salt Lake City, Utah. (7321)

3560. Varying Techniques of Pneumoencephalography.

Madison H. Thomas, M.D., Ch. Neur. Serv.; Salt Lake City, Utah. (7322)

3561. Cerebral Spinal Protein Alterations in Guillain-Barre Syndrome.

Madison H. Thomas, M.D., Ch. Neur. Serv.; Salt Lake City, Utah. (7323)

3562. Areal Distribution of the Response to Repetitive Photic Stimulation.

Kenneth A. Kooi, M.D., Dir. EEG Lab.; Reed S. Boswell, Ph. D., Research Psychol; Madison H. Thomas, M.D., Ch. Neur. Serv.; Salt Lake City, Utah. (7324)

3563. Experimental Dissociation of Generalized Cortical Seizure Discharges from their Motor Manifestations.

Edward C. Beck, Ph. D., Phy. Psychol., VAH; Petter A. Lindstrom, M.D., Cons., VAH, Assoc. Prof. Surg., Univ. of Utah, Coll. of Med.; Kenneth A. Kooi, M.D., Dir. EEG Lab., VAH; Salt Lake City, Utah. (7325)

3564. The Form of Motor-Unit and Fibrillation Potentials.

Leonard W. Jarcho, M.D., Asst. Ch. Med. Serv.; Salt Lake City, Utah. (7356)

3565. Myxedema, Pseudomyotonia, and Myotonia Congenita.

Leonard W. Jarcho, M.D., Ch. Neur. Serv., VAH; Frank H. Tyler, M.D., Attend. Phys., VAH, Assoc. Prof. Med., Univ. of Utah; Salt Lake City, Utah. (7357)

3566. Differential Effects of a Variety of Drugs on Subcortical EEG and Conditioned Responses.

Edward C. Beck, Ph. D., Phy. Psychol.; R. Brian Pendleton, M.S., Phy. Psychol. Tr.; Salt Lake City, Utah. (10505)

3567. Acute Hyperhydration as a Means of Activating the EEG.

D. Frank Benson, M.D., Resident, Neur.; San Francisco, Calif. (7444)

3568. Electrophoresis of Cerebrospinal Fluid in the Normal and in the Myelopathies.

Dr. R. Menendez Corrada, Ch. Hemat. Sect.; San Juan, P.R. (7489)

3569. Fungus Infestations of the Central Nervous System.

Jose A. Alvarez-de-Choudens, M.D., Act. Ch. Neurosurg. Sect., VAC; Luis R. Guzman-Lopez, M.D., Cons. Neurosurg., Asst. Prof. Neuroanat. and Neuropath., Univ. of Puerto Rico Sch. of Med.; Carlos M. Julia, M.D., Examining Phys. Surg. Serv., VAC; Maria Esther Belaval, M.S., Mycol.; San Juan, P.R. (7499)

3570. Use of Fenarol (Clormetazonana), 1-Dioxido de 2-(clorofenil)-3-metil-4-metatiazanona, Wintrhop.

Herman J. Flax, M.D., Act. Ch. PMRS; M. Roger, M.D., Resident PMRS; B. Fernández, M.D., Career Resident, PMRS; Sixta Orraca, Ch. Phys. Therapy; San Juan, P.R. (9224)

3571. Personality Changes in a Severe Obsessive-Compulsive Following Onset and Progression of Multiple Sclerosis.

Henry Leffman, M.D., Neur.; William S. Kogan, Ph. D., Ch. Clin. Psychol.; Seattle, Wash. (7589)

3572. Changes in the Granular Cells of the Cerebellar Cortex—Pathological Study.

Henry Leffman, M.D., Ch. Neur., VAH; Raymond F. Hain, M.D., Attend., VAH, Prof. Path., Univ. of Washington; Seattle, Wash. (7597)

3573. Clinico-pathological Study of Brainstem Lesions.

Henry Leffman, M.D., Ch. Neur., VAH; Jerome B. Posner, M.D., Senior Clin. Fellow in Neur., Univ. of Washington; Seattle, Wash. (7598)

53945—60——27

3574. A Functional Evaluation of Cerebral Blood Flow.

Henry Leffman, M.D., Ch. Neur.; Merlin H. Johnson, M.D., Ch. Psychiat. and Neur.; Seattle, Wash. (7607)

3575. Observation of Patients With Parieto-occipital Lesions.

Henry Leffman, M.D., Ch. Neur.; Seattle, Wash. (9238)

3576. Investigation of Cerebral Blood Flow.

Henry Leffman, M.D., Ch. Neur.; Harold Fellows, Biochem.; Seattle, Wash. (9244)

3577. Mechanisms of Recovery in Cardiac Arrest.

Gordon J. Kinley, M.D., Ward Phys.; Sepulveda, Calif. (7533)

3578. Disturbance of Oxidative Metabolism in Relation to Changes in Serotonin Levels in the Central Nervous System under Deficiency Conditions and the Effect of Psychopharmacological Agents Thereon.

Emery M. Gal, Ph. D., Ch. Neurobiochem. Research Unit; Sepulveda, Calif. (7537)

3579. Regeneration of Nerve Fibers Implanted into the Brain of Adult Cats.

C. D. Clemente, Ph. D., Neuraonat. and Neurophy.; Sepulveda, Calif. (7544)

3580. Effect of X-Irradiation on the Immature Brain.

C. D. Clemente, Ph. D., Neuroanat. and Neurophy.; Sepulveda, Calif. (7545)

3581. Effects of Ionizing Radiations on the Brain of Infant and Adult Animals.

C. D. Clemente, Ph. D., Neuroanat. and Neurophy., VAH; J. N. Yamazaki, M.D., Depts. of Anat., Pediat. and Radiol., Univ. of California at Los Angeles Sch. of Med.; L. Brown, M.A., Senior Lab. Tech., Univ. of California at Los Angeles; Sepulveda, Calif. (7546)

3582. Further Studies on the Action of Reserpine and Chlorpromazine on the Central Nervous System of the Rat.

C. A. Barraclough, Ph. D., Cons. Neurophys., VAH, Asst. Prof. Anat., Univ. of California at Los Angeles; J. Tramezzani, Ph. D., Dept. Anat., Faculty of Med., Univ. of Buenos Aires, Buenos Aires, Argentina; Sepulveda, Calif. (7548)

3583. Studies on the Effect of SKF–1045A (6-Methyl-2-Aminobenziothiole) on the Spontaneous Electrical Activity of the Rat Central Nervous System Thresholds of Arcusal and Recruiting Responses.

C. A. Barraclough, Ph. D., Cons. Neurophys., VAH, Asst. Prof. Anat., Univ. of California at Los Angeles; S. Feldman, Ph. D., Prof. Neur., Hadassah Univ. Med. Center, Jerusalem, Israel; J. Tramezzani, Ph. D., Dept. Anat., Faculty of Med., Univ. of Buenos Aires, Buenos Aires, Argentina; Sepulveda, Calif. (7549)

3584. Regeneration of Peripheral Nerves Inserted into the Cerebral Cortex: Histological and Electrophysiological Studies.

C. D. Clemente, Ph. D., Neuroanat. and Neurophy., VAH; E. J. H. Nathaniel, M.D., Graduate Research Anat., Univ. of California at Los Angeles Sch. of Med.; Sepulveda, Calif. (7558)

3585. The Effect of Removal of the Intestinal Tract on the Biogenesis of 5-Hydroxytryptophane and Serotonin.

Emery M. Gal, Ph. D., Ch. Neurobiochem. Research Unit; Gordon J. Kinley, M.D., Surg. Serv.; Sepulveda, Calif. (7564)

3586. Studies Related to Acetylcholine Synthesis and High Energy Generating Systems Involving Formation of Phosphoryl-CoA.

Emery M. Gal, Ph. D., Ch. Neurobiochem. Research Unit; Sepulveda, Calif. (7565)

3587. Central Nervous System and Hypothalamic Influence upon Adrenal and Thyroid Function of the Hamster.

K. M. Knigge, Ph. D., Cons. Neuroanat. & Neurophys., VAH, Asst. Prof. Anat., Univ. of California at Los Angeles; Sepulveda, Calif. (7571)

3588. Simultaneous Measurement of Thyroid and Adrenal Response to Hypothalamic Stimulation in the Cat.

K. M. Knigge, Ph. D., Cons. Neuroanat. & Neurophys., VAH, Asst. Prof. Anat., Univ. of California at Los Angeles; J. Tramezzani, Ph. D., Dept. Anat., Faculty of Med., Univ. of Buenos Aires, Buenos Aires, Argentina; Sepulveda, Calif. (7572)

3589. Studies on the Fate and Distribution of S35 D1-Lipoic Acid.

Emery M. Gal, Ph. D., Ch. Neurobiochem. Research Unit; Dzidra E. Razevska, B.S., Biochem., Neurobiochem. Research Unit; Sepulveda, Calif. (7573)

3590. Studies on the Interrelationships between Vaginal Cervix Stimulation, Hypothalamic Activation and the Induction of Pseudopregnancy in the Rat.

Charles A. Barraclough, Ph. D., Cons. Neurophysiol.; Sepulveda, Calif. (8861)

3591. Identification of an Ehrlich Positive Pigment in the Urine of Some Patients with Huntington's Chorea.

John D. Stevens, M.D., Staff Psychiat.; Emery M. Gal, Ph. D., Ch. Neurobiochem. Research Unit; Sepulveda, Calif. (10459)

3592. Aminoacid Metabolism in Huntington's Chorea.

John D. Stevens, M.D., Staff Psychiat.; Emery M. Gal, Ph. D., Ch. Neurobiochem. Research Unit; Sepulveda, Calif. (10460)

3593. Clinical Signs in Central Nervous System Luetics.

George C. Flora, M.D., Dept. Neur.; A. B. Baker, M.D., Cons. Neur.; St. Cloud, Minn. (8605)

3594. A Study of the Origin of Back Pain, as Opposed to Root Pain, in Syndromes Related to Herniated Intervertebral Disc and Cord Tumors.

James M. Watson, M.D., Ch. Neur. Sec.; Robert O. Becker, M.D., Ch. Orth. Serv.; Robert King, M.D., Cons. Neuro-Surg., VAH, Prof. Neuro-Surg., State Univ. New York Coll. Med.; Syracuse, N.Y. (7787)

3595. Biochemical Changes Underlying the Combined Effects of Reserpine and Electroconvulsive Shock on Learning and Retention in the Rat.

Donald K. Zellner, A.B., Psychol. Tr., VAH; Matthew J. Wayner, Ph. D., Cons. VAH, Assoc. Prof. Psychol., Syracuse Univ.; Howard Friedman, Ph. D., Ch. Psychol. Sec., VAH; Syracuse, N.Y. (7811)

3596. The Bioelectric Correlates of Regeneration.

Robert O. Becker, M.D., Ch. Orth. Serv.; Syracuse, N.Y. (8925)

3597. Study of Atropinase of Serum and of Liver.

Blair V. Jager, M.D., Ch. Med. Serv.; Syracuse, N.Y. (8928)

3598. Effect of Atropine Sulfate Introduced into Carotid Artery Upon EEG in Normal Subjects and Upon Tremor in Patients With Parkinsonism.

Blair V. Jager, M.D., Ch. Med. Serv.; James MacD. Watson, M.D., Ch. Neur. Sec.; Syracuse, N.Y. (8929)

3599. Studies on Unusual Case of Wilson's Disease.

Robert L. Ohler, M.D., Act. Asst. Dir. Prof. Serv.; Togus, Maine. (7846)

3600. Multiple Sclerosis.

Roger G. Metcalf, M.D., Ward Phys.; Togus, Maine. (10533)

3601. The Relation of the Archimedes Spiral After-Effect, Trail Making Test, and Wechsler Memory Scale to Brain Damage in Elderly Psychotic Patients.

Durand F. Jacobs, Ph. D., Ch. Psychol. Serv.; N. Charles Bourestom, Ph. D., Clin. Psychol.; Tomah, Wis. (7872)

3602. Nonverbal Indices of Brain Damage.

Jerome D. Schein, Ph. D., Asst. Prof. Psychol., Univ. of Wisconsin, Madison, Wis.; Durant F. Jacobs, Ph. D., Ch. Psychol. Serv., VAH, Tomah, Wis.; George C. Flora, M.D., Neur., VAH, St. Cloud, Minn.; Homer F. Walley, EEG Tech., VAH, Tomah, Wis. (10398)

3603. Relation of Archimedes Spiral, Trail Making & Wechsler Memory Tests to Brain Damage in Young Psychotic Patients.

Durand F. Jacobs, Ph. D., Ch. Psychol. Serv., VAH, Tomah, Wis.; N. Charles Bourestom, Ph. D., Clin. Psychol., Northern State College, Aberdeen, S. Dak.; Tomah, Wis. (10399)

3604. The Relationship Between the Sense of Touch and Astereognosis.

Joseph M. Stein, M.D., Asst. Ch. Neur. Serv.; Maurice D. Huling, Ph. D., Staff, Psychol. Serv.; Topeka, Kans. (7879)

3605. The Function of the Superior Colliculus in Vision: An Extended Study.

Lillian Blake, Exper. Psychol. Tr.; Maurice D. Huling, Ph. D., Staff, Psychol. Serv., VAH; M. Erik Wright, M.D., Ph. D., Cons. Psychol., VAH, Prof. Psychiat. & Psychol., Kansas Univ.; Topeka, Kans. (7917)

3606. Hypnosis *vs.* Other States of Consciousness in the Availability of Fleeting Impressions.

Lawrence Stross, M.D., Asst. Ch. Psychiat. Serv. (East); Topeka, Kans. (9255)

3607. Localization of Brain Damage by Differential Loss of Function.

Edwin O. Timmons, Ph. D., Clin. Psychol.; Tuscaloosa, Ala. (10678)

3608. A Survey of the Incidence of Aphasia Resulting From Cerebrovascular Accidents, Brain Injuries, and Central Nervous System Diseases in Hospitalized Patients at VAC, Wadsworth, Kansas, Over a Period of Five Years, 7/1/52 to 7/1/57.

Adeline B. Gauger, M.D., Ch. PMR Serv.; Lloyd McClure, Jr., B.S., Language Retraining Therapist, VAC; Donald L. Rose, M.D., Dir. Phys. Med., Univ. of Kansas Med. Center, Kansas City, Kans.; Wadsworth, Kans. (8038)

3609. Influence of Amplification on the Localization Ability of the Hearing Impaired Listeners.

Richard J. Osborn, B.S., Audiol. Asst., Audiol. Research and Clin. Unit; Washington, D.C. (10697)

3610. An Evaluation of Asterixis in Patients Without Primary Liver Disease.

Harold O. Conn, M.D., Clin. Invest.; West Haven, Conn. (8072)

3611. A Routine Silver Stain for Neurologic Purposes.

Burton Rosner, Ph. D., Clin. Psychol.; Raymond Yesner, M.D., Ch. Lab. Serv.; Doreen Breault, B.S., Histopath. Tech.; West Haven, Conn. (8114)

3612. Psychophysiology of Somathesis.

Burton Rosner, Clin. Psychol.; West Haven, Conn. (8119)

3613. Blood Ammonia Determination in Arterialized Venous Blood.

Harold O. Conn, M.D., Clin. Invest.; West Haven, Conn. (9860)

3614. Study of Autonomic Dysfunction in Spinal Cord Injury at Various Levels. Hemodynamic Determinations of Blood Volume in Paraplegic and Quadriplegic Patients in Relation to Stress.

James M. O'Hare, M.D., Clin. Invest.; West Roxbury, Mass. (8210)

3615. The Acid-Base Pattern of the Cerebrospinal Fluid and Blood in Various Neurological Conditions.

George H. Stueck, Jr., M.D., Asst. Dir. Prof. Serv. for Research, VAC; Robert G. Fisher, M.D., Ph. D., Attend. Neurosurg., VAC, Asst. Prof. Neurosurg., Dartmouth Med. Sch., Hanover, N.H.; White River Junction, Vt. (10682)

3616. Sensory Retraining of the Hemiplegic Hand.

A. Vinograd, M.D.; E. Taylor, O.T.R.; S. A. Grossman, Ph. D.; Wilmington, Del. (10165)

3617. Clinical Evaluation of d-Propoxyphene (Darvon) as an Analgesic Agent.

Mark W. Garry, M.D., Ch. Med. Serv.; Wood, Wis. (8279)

3618. The Effect of Prenatally Administered Tranquilizers Upon the Growth and Activity Patterns of the White Rat.

Robert Callahan, Ph. D., Clin. Psychol.; Wood, Wis. (9755)

(b) Sense organs

3619. Glaucoma Detection.

John W. Smillie, M.D., Ch. Ophth.; Ann Arbor, Mich. (10233)

3620. Evaluation of a Modified Burch Technique for Evisceration.

John W. Smillie, M.D., Ch. Ophth.; Ann Arbor, Mich. (10234)

3621. Comparison of 6–0 Milk Chromic Catgut with 6–0 Silk in Cataract Surgery.

John W. Smillie, M.D., Ch. Ophth.; Ann Arbor, Mich. (10235)

3622. New Magnetic Orbital Implant.

D. Gearhart, D.D.S., Ch. Plastic Artificial Eye Clinic; Everett H. Tomb, Ch. EENT Sect. (deceased); John C. Trakas, M.D., Ch. EENT Sect.; Boston, Mass. (2675)

3623. Tympanoplasty.

J. O'Hurley, M.D., Resident, EENT Sec.; J. C. Trakas, M.D., EENT Sect.; Boston, Mass. (2702)

3624. Development of Technique for Tachistoscopic Study of Visual Field Defects.

John F. Walsh, M.A., Exper. Psychol. Tr.; Boston, Mass. (10271)

3625. Effect of Systemic Corticosteroid Therapy on Intra-Ocular Pressure.

Benjamin Bell, M.D., Ch. EENT Clinic; Lester L. Covell, M.D., Ophth., VAOC; Boston, Mass. (3058)

3626. Mobilization of Stapes Operation for Deafness Due to Clinical Otosclerosis.

Benjamin Bell, M.D., Ch. EENT Serv.; John Wyeth, Audiol., VAOC; Boston, Mass. (3059)

3627. The Development of an Ultrasonic Locator for Use in Ophthalmology.

Gilbert Baum, M.D., Research Fellow; Bronx, N.Y. (10130)

3628. Plastic Implants in Ocular Drainage Surgery.

Harry H. LeVeen, M.D., Ch. Surg. Serv.; Gerald Blumenthal, M.D., Resident, Surg. Serv.; Brooklyn, N.Y. (2908)

3629. Glaucoma in Geriatric Patients.

Jacques Landesberg, M.D., Ch. Eye Serv., VAOC; Brooklyn, N.Y. (2833)

3630. Electrodermal Speech Audiometry.

Howard B. Ralm, A.M., Audiol.; Otto J. Menzel, Ph. D., Asst. Ch. Audiol. and Speech Correct. Clin.; Chicago (W.S.), Ill. (3783)

3631. Clinical Efficiency in Audiometric Measurements.

Otto J. Menzel, Ph. D., Asst. Ch. Audiol.; Melvin Nidetz, M.A., Asst. Ch. Audiol. and Speech Correc. Clin.; Chicago (W.S.), Ill. (3784)

3632. Auditory Sensitivity in Patients With Renal Disease.

Barry S. Elpern, Ph. D., Research Audiol.; Roy J. Korn, M.D., Ch. Med. Serv.; Chicago (W.S.), Ill. (9389)

3633. Auditory Discrimination Performance in a Relatively Large Clinical Sample.

Barry S. Elpern, Ph. D., Research Audiol.; Chicago (W.S.), Ill. (9390)

3634. Some Methodological Problems in the Identification of the Functionally Deaf.

Emory O. Windrem, M.A, Ch. Audiol. and Speech Correction Clin.; Henry H. Weiss, Ph. D., Research Clinical Psychol.; Chicago (W.S.), Ill. (9391)

3635. Lacrimal Drainage Following Parotid Duct Transplant.

James E. Bennett, M.D., Clin. Instr. Ophth., Western Reserve Univ. Med. Sch., Attend. Phys., VAH; James Armstrong, M.D., Resident, Ophth., VAH; Cleveland, Ohio. (3137)

3636. Effect of Alcohol Ingestion Following Parotid Duct Transplant.

James E. Bennett, M.D., Clin. Instr. Ophth., Western Reserve Univ. Med. Sch., Attend. Phys., VAH; James Armstrong, M.D., Resident, Ophth., VAH; Cleveland, Ohio. (3141)

3637. Effects of Pressure on Vitreous Hydration.

James E. Bennett, M.D., Clin. Instr. Ophth., Western Reserve Univ. Med. Sch., Attend. Phys., VAH; Arbey L. Bailey, M.D., Ch. Ophth. Serv., VAH; Cleveland, Ohio. (3142)

3638. Effect of Chromatization on Suture Tracts.

James E. Bennett, M.D., Clin. Instr., Ophth., Western Reserve Univ., Attend. Phys., VAH; James R. Armstrong, M.D., Resident, Ophth., VAH; Cleveland, Ohio. (10646)

3639. The Effect of Autonomic Drugs on the Tonography of the Eye.

Frederick C. Blodi, M.D., Ch. Div. Ophth.; Iowa City, Iowa. (4868)

3640. Histopathological Studies of the Organ of Corti.

Eugene L. Grandon, M.D., Ch. Otolaryng.; Iowa City, Iowa. (4870)

3641. The Transaminase Content of the Aqueous Fluid.

Frederick C. Blodi, M.D., Ch. Div. Ophth.; Robert S. Melville, Ph. D., Ch. Biochem.; Iowa City, Iowa. (9589)

3642. Effect of Digitalis on the Human Spectralsensitivity Curve.

Eugene J. Towbin, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Burch V. Raley, M.D., Staff Phys., VAH; James Peskin, Ph. D., Prof. Biol., Univ. of Rochester, Rochester, N.Y.; Little Rock, Ark. (10997)

3643. Behavioral and Electrophysiologic Studies of Flicker-Fusion.

D. B. Lindsley, Ph. D., Neurophy.; A. S. Schwartz, Ph. D., Research Phychol.; Long Beach, Calif. (5202)

3644. Color Localization Upon the Lateral Geniculate Bodies of Monkey and Cat.

D. B. Lindsley, Ph. D., Neurophy., VAH; R. S. Griffiths, M.A., Research Phy., Univ. of California at Los Angeles; Lisa Chackko, M.D., Chm. Dept. Anat., Christian Women's Med. Sch., Madras, India; J. D. French, M.D., Asst. Dir. Prof. Serv., VAH; Long Beach, Calif. (5203)

3645. Effect of Reticular Stimulation Upon Sensory Cortical Response in Cat and Monkey.

D. B. Lindsley, Ph. D., Cons., VAH, Prof. Psychol. and Phy., Univ. of California at Los Angeles Med. Sch.; R. S. Griffiths, M.A., Research Psychol., Univ. of California at Los Angeles; J.D. French, M.D., Asst. Dir. Prof. Serv. for Research, VAH; Long Beach, Calif. (5204)

3646. Differential Response of Visual Mechanism to Different Wave-Lengths (Colors).

D. B. Lindsley, Ph. D., Neurophy., VAH; R. S. Griffiths, M.A., Research Phy., Univ. of California at Los Angeles; J. D. French, M.D., Asst. Dir. Prof. Serv., VAH; Long Beach, Calif. (5216)

3647. Cortical Representation of Visually Evoked Responses and Their Relation to Spontaneous Rhythms of the Cortex.

D. B. Lindsley, Ph. D., Neurophy., VAH; R. S. Griffiths, M.A., Research Phy., Univ. of California at Los Angeles; J. D. French, M.D., Asst. Dir. Prof. Serv., VAH; Long Beach, Calif. (5217)

3648. Investigation of Efferent Discharges in Optic Pathways.

D. B. Lindsley, Ph. D., Cons., VAH, Prof. Psychol. and Phy., Univ. of California at Los Angeles Med. Sch.; R. S. Griffiths, M.A., Research Psychol., Univ. of California at Los Angeles Med. Sch.; J. D. French, M.D., Asst. Dir. Prof. Serv. for Research, VAH; Long Beach, Calif. (5219)

3649. Effect of Reticular Formation Stimulation Upon Lateral Geniculate and Cortical Response.

D. B. Lindsley, Ph. D., Cons., VAH, Prof. Psychol. and Phy., Univ. of California at Los Angeles Med Sch.; R. Griffiths, M.A., Research Psychol., Univ. of California at Los Angeles Med. Sch.; J. D. French, M.D., Asst. Dir. Prof. Serv. for Research, VAH; Long Beach, Calif. (5220)

3650. Behavioral and Electrophysiologic Studies of Two-Flash Discrimination.

D. B. Lindsley, Ph. D., Neurophy., VAH; E. Wyers, Ph. D., Research Psychol., Univ. of California at Los Angeles Med. Sch.; Long Beach, Calif. (5230)

3651. The Use of Hydrosulphosol Solution in the Prevention of Lenticular Opacities.

C. S. Mumma, M.D., Sec. Ch. EENT; Los Angeles, Calif. (5764)

3652. New Nasal Preparations—Otravin and Ultracortenol.

Harry Steinberg, M.D., Phys. EENT; Los Angeles, Calif. (8451)

3653. The Effect of Age on Hearing.

Edwin T. Wright, M.D., Sec. Ch. Derm.; Claude S. Mumma, M.D., Ch. EENT Sec., VAC; Aram Glorig, M.D., Assoc. Clin. Prof. Surg. (EENT), UCLA Med. Cent.; Los Angeles, Calif. (9146)

3654. The Effect of Auditory Masking Upon Oral Reading Rate.

Richard A. Winchester, Ph. D., Research Audiol., Audiol. and Speech Path. Serv.; Edward W. Gibbons, Ph. D., Ch. Audiol. and Speech Path. Serv., VAOC; Los Angeles, Calif. (11120)

3655. Relative Effectiveness of Three Modes of Delayed Sidetone Presentation.

Richard A. Winchester, Ph. D., Research Audiol., Audiol. and Speech Path. Serv.; Edward W. Gibbons, Ph. D., Ch. Audiol. and Speech Path. Serv., VAOC; Los Angeles, Calif. (11118)

3656. A Delayed Sidetone Test for Detecting Uniaural Functional Deafness.

Edward W. Gibbons, Ph. D., Ch. Audiol. and Speech Path. Serv.; Richard A. Winchester, Ph. D., Research Audiol., VAOC; Los Angeles, Calif. (11119)

3657. The Variability of Oral Reading Rate.

Edward W. Gibbons, Ph. D., Ch. Audiol. and Speech Path. Serv.; Richard A. Winchester, Ph. D., Research Audiol.; Donald F. Krebs, M.A., Audiol., VAOC; Los Angeles, Calif. (11121)

3658. Adaptation to Sustained Delayed Sidetone.

Richard A. Winchester, Ph. D., Research Audiol.; Edward W. Gibbons, Ph. D., Ch. Audiol. and Speech Path. Serv.; Donald F. Krebs, M.A., Audiol., VAOC; Los Angeles, Calif. (11122)

3659. An Experimental Investigation of the Dichotic Application of Delayed Sidetone and Masking Noise.

Edward W. Gibbons, Ph. D., Ch. Audiol. and Speech Path. Serv., VAOC; Los Angeles, Calif. (11123)

3660. Noise Interference Study.

Edward W. Gibbons, Ch. Audiol. and Speech Path. Serv.; Donald F. Krebs, Audiol., VAOC; Los Angeles, Calif. (11124)

3661. Surface Anatomy of Stensen's Duct and Sialography.

Heinz Oppenheim, M.D., Ch. Otolaryng. Surg. Serv.; Louisville, Ky. (5460)

3662. Postmortem Chemistry After Embalming.

Hans N. Naumann, M.D., Ch. Biochem. Sect., Lab. Serv.; Robert D. Gourley, M.D., Asst. Ch. Lab. Serv.; Joseph M. Young, M.D., Ch. Lab. Serv.; Memphis, Tenn. (6021)

3663. Postmortem Chemistry of the Vitreous Body in Man.

Hans N. Naumann, M.D., Ch. Biochem. Sect., Lab. Serv.; Memphis, Tenn. (6022)

3664. Further Investigations on Postmortem Chemistry of Vitreous Body.

Hans N. Naumann, M.D., Ch. Biochem. Sect., Lab. Serv.; Memphis, Tenn. (10471)

3665. The Effect of Subliminal Auditory Stimuli in Auditory Discrimination.

Bernard Locke, Ph. D., Ch. Psychol. Serv.; New York, N.Y. (6547)

3666. An Audiological and Psychological Study of Veterans Diagnosed as Having Menieres Disease.

William Aber, M.A., Super. Audiol., VARO; New York, N.Y. (10853)

3667. The Relative Success of Fenestration and Stapes Mobilization Surgery in Effecting Permanent Improvement of Auditory Thresholds.

Louis Goldstein, M.D., Ch. ENT Group; Asher Wolfe, M.A., Research Audiol.; William Aber, M.A., Super. Audiol., VARO; New York, N.Y. (10860)

3668. Development of Materials and Techniques for Evaluating Environmental Listening Capabilities.

Asher S. Wolfe, M.A., Research Audiol., VARO; New York, N.Y. (10861)

3669. A Survey of Auditory Thresholds of Diabetic Veterans.

Morris F. Heller, M.D., Ch. ENT Audiol. Unit; Samuel Alpert, M.D., Ch. Diabetic Clinic; William Aber, M.A., Super. Audiol.; Asher Wolfe, M.A., Research Audiol., VARO; New York, N.Y. (10862)

3670. A Clinical Evaluation of Monaural Hearing Aids.

William Aber, M.A., Super. Audiol., VARO; New York, N.Y. (10863)

3671. A Study of Lip-Reading Skills Among Males with Organic and Non-Organic Hearing Losses.

Beatrice Reisman, M.A., Clin. Audiol., VARO; New York, N.Y. (10864)

3672. More Precise Method for Evaluation of Vertical Occular-motor Imbalance.

Clarence King, M.D., Ward Phys.; Theodore Willers, Ch. Med. Illus. Serv.; Northport, N.Y. (10202)

3673. Extinction Phenomenon in Flicker Visual Fields.

Roy W. Teed, M.D., Ch. Ophth. Sect.; Oklahoma City, Okla. (6914)

3674. Perception of Rapidly Changing Stimuli.

Paul McReynolds, Ph. D., Ch. Research, Psychol. Serv.; Palo Alto, Calif. (6802)

3675. Conditioned Eyeblink Transducer.

J. R. Rous, Ch. Instrument Develop. Sect.; C. C. Brown, Ph. D., Dir. Psychophy. Research Lab.; Perry Point, Md. (10579)

3676. Color Fatigue and Color Adaptation after Prolonged Use of Neutral, Colored and Monochromatic Filters; Practical Application for Endoscopic Examinations.

Hubert J. Adler, M.D., Ch. ENT Serv.; Phoenix, Ariz. (10629)

3677. Intracameral Use of Steroids in the Eye.

Robert N. Lehman, M.D., Ch. Ophth. Serv., VAH; Murray F. McCaslin, M.D., Cons. VAH, Prof. Ophth., Univ. Pittsburgh Sch. Med.; Pittsburgh (Univ. Dr.), Pa. (11088)

3678. The Effects of Antibodies on Eye and Brain Differentiation *in-utero*.

Don C. Wood, Ph. D., Biochem. VAH; Estelle Shuster, M.A., Tech. Univ. of Utah; Salt Lake City, Utah. (7373)

3679. An Investigation of Functional Hearing Loss.

Isaac Silberman, M.D., Ch. Neur. Sect., VAH; Walter P. Work, M.D., Attend. VAH, Prof. Surg., Otorhinolaryng., Stanford Univ. Sch. of Med.; Lyman S. Barrett, A.B., Ch. Audiol. Sect., VAH; Jack Blumenkrantz, Ph. D., Asst. Ch. Psychol. Sect.; Joseph B. Chaiklin, Ph. D., Asst. Ch. Audiol. Sect.; Ira M. Ventry, Ph. D., Audiol.; San Francisco, Calif. (7454)

3680. The Conditioned Galvanic Skin Response Auditory Speech Threshold and Its Relationship to Selected Voluntary Auditory Speech Thresholds.

Joseph B. Chaiklin, Ph. D., Asst. Ch. Audiol. Sect.; San Francisco, Calif. (7455)

3681. Studies in Itch, Tickle and Pain.

Bernard A. Cruvant, M.D., Ch., Neuropsychiat. Serv.; Wilbur K. Rigby, Ph. D., Ch. Clin. Psychol. Sect.; St. Louis, Mo. (7709)

3682. The Effects of Brain Injury on Cortical Conductivity and Memory Trace Interaction.

David E. Mathae; Martin Scheerer, Ph. D.; Topeka, Kans. (7880)

3683. Eye Movement in Relation to Ocular Dominance and Handedness.

Paul G. Smith, M.D., Resident Psychiat.; Topeka, Kans. (9263)

3684. Speech Discrimination Under Two Conditions of Interruption.

Jeanette Filbert, B.A., Audiol., VBO; Washington, D.C. (8005)

3685. Determination of Organic Hearing Threshold by Means of Delayed Sidetone.

G. Donald Causey, Ph. D., Ch. Audiol. Research and Clin. Unit.; Linda M. McGranahan, M.A., Audiol., VBO; Washington, D.C. (8006)

3686. Performance Ratings on Hearing Aids Submitted for Use in VA for the Fiscal Year 1960.

G. Donald Causey, Ph. D., Ch. Audiol. Research and Clin. Unit; Paul J. LaBenz, Sc. D., Super. Audiol. Research and Clin. Unit; Linda M. McGranahan, M.A., Audiol., VBO; Washington, D.C. (8501)

3687. Clinical Significance of Some Physical Characteristics of Hearing Aids.

Paul J. LaBenz, Sc. D., Super. Audiol. Research and Clin. Unit; Ray Reddell, B.A., Audiol., VBO; Washington, D.C. (8502)

3688. Comparison of the Effects of Three Types of Noise on the Doerfler-Stewart Test.

Ray Reddell, B.A., Audiol., VBO; Washington, D.C. (8504)

3689. Electroencephalographic Audiometry.

Paul J. LaBenz, Sc. D., Super. Audiol. Research and Clin. Unit; G. Donald Causey, Ph. D., Ch. Audiol. Research and Clin. Unit, VBO; Washington, D.C. (8503)

3690. Children's Orientation to Verticality.

Paul Kolers, Ph. D., Psychol. Tr.; West Haven, Conn. (8110)

3691. Studies of Facilitatory and Inhibitory Processes in Vision.

Paul Kolers, Ph. D., Psychol. Tr.; West Haven, Conn. (8121)

7. Cardiovascular Diseases

3692. Role of Lipemia in Ischemic Heart Disease.

P. F. McCormack, M.D., Asst. Ch. Cardiovasc. Sect., VAH; Edward Gillie, M.D., Fellow in Card., Albany Hosp.; D. F. Brown, M.D., Asst. in Med., Albany Med. Coll.; J. T. Doyle, M.D., Assoc. Prof. Med., Dir., Cardiovasc. Health Center, Albany Med. Center; R. A. Peabody, Ph. D., Ch. Chem., Research Lab., VAH; B. H. Koser, A.B., Biochem., Research Lab.; C. L. Rosano, M.S., Biochem., Research Lab; Albany, N.Y. (2009)

3693. Magnetic Tape Recording of Two Simultaneous Phonocardiograms.

F. W. Watkins, M.D., Ward Phys.; W. S. Taylor, M.D., Ch. Med. Serv.; Albuquerque, N. Mex. (9286)

3694. Myocardial Infarction Without Diagnostic EKG Changes: A. Clinicopathologic Study With Special Reference to Subendocardial Infarction.

Richard D. Judge, M.D., Clin. Invest., VAH; Robert C. Hendrix, M.D., Asst. Prof. Path., Univ. of Michigan; Franklin D. Johnston, M.D., Prof. Intern. Med., Univ. of Michigan; Ann Arbor, Mich. (2124)

3695. Electrokymography: A Correlation of Border Movements With Underlying Intra-Cavitary Pressures in Man.

Richard D. Judge, M.D., Clin. Invest.; Ann Arbor, Mich. (2125)

3696. Ventricular Electrokymography in Acute and Chronic Pericarditis.

Richard D. Judge, M.D., Clin. Invest., VAH; Mary E. Clifford, M.D., Clin. Instr. Intern. Med., University Hosp., Univ. of Michigan; Ann Arbor, Mich. (2126)

3697. Treatment of Coronary Atherosclerosis in Young Males With Estrogens.

Rudolph E. Reichert, M.D., Act. Ch. Card. Sec.; James Wood, M.D., Asst. Ch. (Clin.) RI Serv.; Ann Arbor, Mich. (2143)

3698. Serum Glutamic Oxaloacetic Transaminase Levels in Subendocardial Infarction and Cases of Myocardial Infarction Without Diagnostic EKG Changes.

Richard D. Judge, M.D., Clin. Invest.; Rudolph E. Reichert, M.D., Act. Ch. Card. Sec.; James A. Wood, M.D., Asst. Ch. (Clin.) RI Serv.; Ann Arbor, Mich. (2144)

3699. Evaluation of Sitosterol Therapy in Atherosclerosis.

Henry K. Schoch, M.D., Ch. Med Serv.; Richard D. Judge, M.D., Clin. Invest. Med. Serv.; Rudolph E. Reichert, M.D., Act. Ch. Card. Sec.; Leon D. Ostrander, M.D., Physician, Internal Med.; Patricia Sommerfeldt, B.S., Research Biochem.; Gertrude (Bosscher) Bailey, M.S., Research Diet.; Ann Arbor, Mich. (2146)

3700. Use of Prosthetic Materials in Aortic Grafts.

Marion S. DeWeese, M.D., Assoc. Prof. Surg. Univ. of Michigan; Daniel C. Hunter, M.D., Ch. E. Surg. Sec., VAH; G. Hugh Lawrence, M.D., Ch. W. Surg. Sec.; Ann Arbor, Mich. (2162)

3701. Tolerance and Response of the Dog to Recurrent Trauma.

E. C. Atkins, M.D., Senior Resident Surg.; J. C. Thoroughman, M.D., Ch. Surg. Serv.; B. M. Covey, Biochem., RI Serv.; Atlanta, Ga. (2272)

3702. Effects of Overdistending the Vascular Compartment With Heart and Lungs By-Passed.

James C. Thoroughman, M.D., Ch. Surg.; Robert Hornik, M.S., Research Asst. in Surg.; Atlanta, Ga. (8523)

3703. Consideration of the EKG Tracing From a Purely Mathematical Viewpoint. Part V—Determination of the Plane of the Vector Loop.

Joseph G. Bohorfoush, M.D., Ch. Med. Serv.; Augusta, Ga. (2292)

3704. Incidence of Thrombosis and Embolism following Ligation and Fivision and Following Division and Suture Closure of the Inferior Vena Cava in Dogs.

C. Martin Rhode, M.D., Ch. Surg. Serv.; William H. Moretz, M.D., Prof. and Chm. Surg., Med. Coll. of Georgia; Augusta, Ga. (2304)

3705. The Etiologic Diagnosis of Early Right Ventricular Hypertrophy.

Hyman Fisher, M.D., Ward Phys. Gen. Med. Serv.; Morris W. Dexter, M.D., Ph. D., Ch. Card. Serv.; Milton B. Cole, M.D., Cons., Allergy; Joseph V. Hammel, M.D., Ward Phys. Pulm. Disease Sec.; Alfred H. Lawton, M.D., Ph. D., Sc.D., Dir. Research Lab.; Bay Pines, Fla. (10309)

3706. The Effect of Digitalis on the Force, Work, and Power of the Heart.

E. E. Eddleman, Jr., M.D., Asst. Dir. Prof. Serv. Research; Birmingham, Ala. (2515)

3707. The Effect of Smoking on the Force, Work, and Power of the Heart.

E. E. Eddleman, Jr. M.D., Asst. Dir. Prof. Serv. Research; Birmingham, Ala. (2516)

3708. Studies on the Genesis of the Force Ballistocardiogram of the Dog.

William H. Frederick, Research Asst. CV Research; E. E. Eddleman, Jr., M.D., Ch. Med. Serv.; Birmingham, Ala. (2517)

3709. The Effect of Nitrite Ion on Heart Force, Work, and Power.

E. E. Eddleman, Jr., M.D., Asst. Dir. Prof. Serv. for Research; Birmingham, Ala. (2519)

3710. Development of Technic for Recording Force, Work, and Power Ballistocardiogram.

E. E. Eddleman, Jr., M.D., Ch. Med. Serv.; Birmingham, Ala. (2520)

3711. The Study of Force, Work, and Power in Ballistocardiography in Normal Subjects.

E. E. Eddleman, Jr., M.D., Asst. Dir. Prof. Serv. for Research; Birmingham, Ala. (2522)

3712. The Study of Force, Work, and Power in Ballistocardiography in Heart Disease.

E. E. Eddleman, Jr., M.D., Asst. Dir. Prof. Serv. for Research; Birmingham, Ala. (2523)

3713. Study of the Movements of the Dog's Heart.

E. E. Eddleman, Jr., M.D., Ch. Med. Serv.; Birmingham, Ala. (2524)

3714. Kinetocardiographic and Ballistocardiographic Studies in Mitral Valve Disease.

E. E. Eddleman, Jr., M.D., Ch. Med. Serv.; Birmingham, Ala. (2526)

3715. Current Status of Ballistocardiography.

E. E. Eddleman, Jr., M.D., Ch. Med. Serv., VAH; T. J. Reeves, M.D., Cons., CV Research, VAH, Assoc. Prof. Med., Med. Coll. of Alabama; Birmingham, Ala. (2527)

3716. Study of Combined Valvular Heart Disease with the Ballistocardiographic and Kinetocardiographic Technics.

E. E. Eddleman, Jr., M.D., Ch. Med. Serv.; Birmingham, Ala. (2530)

3717. The Effect of Mitral Valvulotomy on Ballistocardiographic and Kinetocardiographic Traces.

E. E. Eddleman, Jr., M.D., Ch. Card. Sec.; Birmingham, Ala. (2534)

3718. Study of Respiratory Variations of Force, Work, and Power Ballistocardiograms.

E. E. Eddleman, Jr., M.D., Ch. Med. Serv.; Birmingham, Ala. (2535)

3719. Determining of Normal Myocardial Function by the Use of the Force, Work, and Power Ballistocardiogram.

E. E. Eddleman, Jr., M.D., Ch. Med. Serv.; Birmingham, Ala. (2536)

3720. Movements of the Human Heart.

E. E. Eddleman, Jr., M.D., Ch. Med. Serv.; Birmingham, Ala. (2537)

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3721. Correlation of Movements of the Heart with Kinetocardiograms.

E. E. Eddleman, Jr., M.D., Ch. Med. Serv.; Birmingham, Ala. (2538)

3722. The Early Recognition of the Perimyocardial Function.

E. E. Eddleman, Jr., M.D., Ch. Med. Serv; Birmingham, Ala. (2539)

3723. Early Recognition of Coronary Artery Disease.

E. E. Eddleman, Jr., M.D., Ch. Med. Serv.; Birmingham, Ala. (2540)

3724. Study of Methods in the Diagnosis of Right Ventricular Hypertrophy.

E. E. Eddleman, Jr., M.D., Ch. Med. Serv.; Birmingham, Ala. (2541)

3725. Methods in Diagnosing Left Ventricular Hypertrophy.

E. E. Eddleman, Jr., M.D., Ch. Med. Serv.; Birmingham, Ala. (2542)

3726. Kinetocardiographic Study of Bundle Branch Block.

E. E. Eddleman, Jr., M.D., Ch. Med. Serv.; Birmingham, Ala. (2543)

3727. Velocity of Flow in the Aorta Derived From the Aortic Pressure Pulse.

William B. Jones, M.D., Clin. Invest. Cardiovasc. Research; Birmingham, Ala. (2551)

3728. Correlation of the J Wave of the Ballistocardiogram With Aortic Flow Velocity.

William B. Jones, Clin. Invest. Cardiovasc. Research; Birmingham, Ala. (2552)

3729. The Relationship Between Left Ventricular Size and the Rate of Ventricular Emptying.

W. B. Jones, M.D., Clin. Invest. Cardiovasc. Research; Birmingham, Ala. (2553)

3730. Two Dimensional Ballistocardiography.

William B. Jones, M.D., Clin. Invest. Cardiovasc. Research; Birmingham, Ala. (2554)

3731. The Correlation of Events in the Pressure Pulse With the BCG.

William B. Jones, M.D., Clin. Invest. Card. Research; Birmingham, Ala. (2555)

3732. A Study of Biochemical, as Well as Hemodynamic Alterations in Atherosclerosis.

E. E. Eddleman, Jr., M.D., Asst. Dir. Prof. Serv. for Research; S. Richardson Hill, Jr., M.D., Ch. Metab. Sec.; Birmingham, Ala. (2584)

3733. A Study of Cardiac Output Using Radioisotope Tracer Technique.

William L. Hawley, M.D., Cons., VAH, Assoc. Prof. Clin. Med., Med. Coll. of Alabama; Andrew F. Spear, Jr., Physicist, Dept. Med., Med. Coll. of Alabama; William E. Martindale, Biochem., VAH; Birmingham, Ala. (2646)

3734. The Effect of Epinephrine and Norepinephrine on the Kinetic Energy of the Dog's Heart.

E. E. Eddleman, Jr., M.D., Ch. Med. Serv.; Birmingham, Ala. (9674)

3735. The Estimation of Cardiac Work and Kinetic Energy in the Human (with the Aid of the Jones Flow Meter).

E. E. Eddleman, Jr., M.D., Ch. Med. Serv.; Birmingham, Ala. (9675)

3736. Estimation of True Cardiac Work and Kinetic Energy in the Dog (with the Aid of the Jones Flow Meter).

E. E. Eddleman, Jr., M.D., Ch. Med. Serv.; Birmingham, Ala. (9676)

3737. Cardiovascular Dynamics—Technics for Indirect Measurement.

E. E. Eddleman, Jr., M.D., Ch. Med. Serv.; Birmingham, Ala. (9677)

3738. Clinical Application of the Ultra Low Frequency Precordial Movements (Kinetocardiograms).

E. E. Eddleman, Jr., M.D., Ch. Med. Serv.; Birmingham, Ala. (9678)

3739. The Role of Changes in Peripheral Resistance in the Changes of Left Ventricular Output during Respiration.

William B. Jones, M.D., Clin. Invest. Cardiovasc. Research; Birmingham, Ala. (9679)

3740. The Left Ventricular Output Response to Exercise as Modified by Heart Disease.

William B. Jones, M.D., Clin. Invest. Cardiovasc. Research; Birmingham, Ala. (9680)

3741. A Study of the Reflex Mechanisms Regulating the Respiratory Changes of Left Ventricular Output.

William B. Jones, M.D., Clin. Invest. Cardiovasc. Research; Birmingham, Ala. (9681)

3742. The Relationship between Cardiac Output and Oxygen Debt with Exercise.

William B. Jones, M.D., Clin. Invest. Cardiovasc. Research; Birmingham, Ala. (9682)

3743. The Relationship between Left Ventricular Stroke Output and Respiration.

William B. Jones, M.D., Clin. Invest. Cardiovasc. Research; Birmingham, Ala. (9683)

3744. Estimation of Pulmonary Artery Pressure from the Kinetocardiogram.

E. E. Eddleman, Jr., M.D., Ch. Med. Serv.; Birmingham, Ala. (9684)

3745. A Study of Patients with Newly Diagnosed Myocardial Infarctions.

Solomon Papper, M.D., Asst. Ch. Med.; Virginia Rice, M.S., Research SW; Boston, Mass. (2665)

3746. Segmental Grafts for Occlusive Arteriosclerosis.

H. Faxon, M.D., Ch. Surg.; R. Estabrooks, M.D., Resident, Gen. Surg.; E. T. O'Hara, M.D., Asst. Ch. Surg.; Boston, Mass. (2707)

3747. A Study of Serum Lipids in Patients with Cardiovascular Disease.

Joseph M. Looney, M.D., Ch. Clin. and Research Lab.; John E. Thompson, M.D., Intern., VAOC; Boston, Mass. (3055)

3748. Clinical Evaluation of Hydrochlorothiazide in Hypertension and in Edematous Conditions.

Arthur J. Hadler, M.D., Ch. Med. Serv.; Joseph M. Looney, M.D., Path., VAOC; Boston, Mass. (8574)

3749. A Study of Heart Disease of Undetermined Etiology.

Benjamin S. Gordon, M.D., Ch. Lab. Serv.; Walter Neumann, M.D., Asst. Ch. Card. Sect.; Bronx, N.Y. (4506)

3750. An Observation of BUN Elevation Following Chlorothiazide (Diuril) Diuresis.

R. Sperber; G. Gabor; D. Malcolm; S. Harvey; Bronx, N.Y. (4562)

3751. The Study of the Transplanted Mammalian Heart.

H. K. Tsuji; P. Cooper; K. C. Sze; Bronx, N.Y. (4718)

3752. Arteriovenous Fistula Between the Common Iliac Vessels. Report of a Case and Review of Literature.

Kenneth C. Sze, M.D., Sect. Ch. Thoracic Surg.; Robert Schobinger, M.D., Sect. Ch. Gen. Surg.; Philip Cooper, M.D., Ch. Surg. Serv.; Bronx, N.Y. (8671)

3753. The Environmental Temperature Test in Peripheral Vascular Disease.

Dr. Alfred Ebel, Ch. PMR; Dr. Kurt Raab, Senior Resident, PMR; Dr. O. Alan Rose, Cons. Peripheral Vasc. Diseases; Bronx, N.Y. (9049)

3754. Fatty Acids and Atherosclerosis.

Benson Bloom, M.D., Asst. Dir. Prof. Serv.; Samuel Glassman, M.D., Dir. Prof. Serv.; Julius Wolf, M.D., Ch. Med. Serv.; Joan Kanyuck, Clinic Diet.; Bronx, N.Y. (9050)

3755. General Study of the Pump Oxygenator and the Extracorporeal Circulation.

Philip Cooper, M.D., Ch. Surg. Serv.; Kenneth C. Sze, M.D., Sec. Ch. Thoracic Surg.; Bronx, N.Y. (9058)

3756. Paroxysmal Tachycardia Due to Abnormal Brain Discharges: Case Report and Review of the Literature.

Lawrence Ross, M.D., Resident, Med.; Carl Booth, M.D., Sec. Ch. Neur.; Bronx, N.Y. (9071)

3757. The Phonocardiogram in Mitral Stenosis With Particular Reference to the Delay of the First Sound.

Rudolph E. Fremont, M.D., Ch. Card. Sec.; Brooklyn, N.Y. (2846)

3758. The Fibrinogen-Polymerization Test in Pericarditis, Myocarditis and the Post-Commissurotomy Syndrome.

Rudolph E. Fremont, M.D., Ch. Card. Sec., VAH; Samuel Losner, M.D., Assoc. Dir. Lab., Jewish Chronic Disease Hosp.; Bruno W. Volk, M.D., Dir. Lab., Jewish Chronic Disease Hosp.; Brooklyn, N.Y. (2850)

3759. Clinical Evaluation of Glutamyl Polypeptide Polymers.

David R. Axelrod, M.D., Ch. Metab. Sec.; Daniel J. O'Connell, M.A., Biochem., Research Lab.; Joseph H. Felton, B.S., Bact., Research Lab.; Max Bovarnick, M.D., Ph. D., Ch. Lab. Serv.; Brooklyn, N.Y. (2852)

3760. Physico-Chemical Studies on Polymers of Glutamyl Polypeptide.

Max Bovarnick, M.D., Ph. D., Ch. Lab. Serv.; Daniel J. O'Connell, M.A., Biochem., Research Lab.; Brooklyn, N.Y. (2853)

3761. Excretion of Salt and Water.

David Robert Axelrod, M.D., Ch. Metab. Sec.; Brooklyn, N.Y. (2859)

3762. Vectorcardiographic Analysis of Certain Scalar Electrocardiograms Allowing Variable Interpretation.

Rudolph E. Fremont, M.D., Ch. Card. Sec.; Benjamin Jagendorft, M.D., Attend.; Brooklyn, N.Y. (2862)

3763. Evaluation of "Cardrase" and Diamox in the Treatment of Congestive Heart Failure.

Paul W. Spear, M.D., Ch. Med. Serv.; Rudolph E. Fremont, M.D., Ch. Card. Sec.; David R. Axelrod, M.D., Ch. Metab. Sec.; Brooklyn, N.Y. (2863)

3764. The Use of Aramine (Pressonex) in the Treatment of Medical and Surgical Shock.

Rudolph E. Fremont, M.D., Ch. Card. Sec.; Benjamin Jagendorf, M.D., Attend.; Brooklyn, N.Y. (2883)

3765. Despeciated Vessel Transplants.

Harry H. LeVeen, M.D., Ch. Surg. Serv.; Alexander Telesford, M.D., Resident, Gen. Surg.; Stanley Butler, M.D., Resident, Surg. Serv., VAH; Kenneth Appell, M.D., Research Asst., Adj. Cancer Chemotherapy (NIH); Brooklyn, N.Y. (2904)

3766. Instantaneous Blood Loss Determination in Thoracic Surgery.

Robert Klopstock, M.D., Ch. Thoracic Surg. Sect.; Harry H. LeVeen, M.D. Ch. Surg. Serv.; Brooklyn, N.Y. (2910)

3767. Studies of Oral Circulation. I. Carotid Arteriograms in the Dog.

Philip Person, D.D.S., Ch. Spec. Dent. Research Prog.; Jerome Dubowy, M.D., Radiation Therapist; Brooklyn, N.Y. (2931)

3768. Studies of Oral Circulation. II. The Oral Tissue Fluorograph.

Philip Person, D.D.S., Ch. Spec. Dent. Research Prog.; Brooklyn, N.Y. (2941)

3769. Use of Digitalis to Counteract Potassium Toxicity.

Harry H. LeVeen, M.D., Ch. Surg. Serv.; Benjamin Schatman, M.D., Resident, Surg. Serv.; Gerald Falk, B.S., Med. Tech., Surg. Serv.; Brooklyn, N.Y. (10795)

3770. The Value of Venous Pressure as an Index of Overtransfusion.

Benjamin Schatman, M.D., Resident, Surg. Serv.; Gerald Falk, B.S., Med. Tech. Surg. Serv.; Harry H. LeVeen, M.D., Ch. Surg. Serv.; Brooklyn, N.Y. (10796)

3771. Excretion of Potassium by Animals Maintained in Compensated Hypovolemia.

Harry H. LeVeen, M.D., Ch. Surg. Serv.; Benjamin Schatman, M.D., Resident, Surg. Serv.; Gerald Falk, B.S., Med. Tech., Surg. Serv.; Brooklyn, N.Y. (10797)

3772. Roentgenographic Visualization of the Coronary Arteries.

Morris Witten, M.D., Radiol. Serv., VAOC; Nathaniel E. Reich, M.D., Collab. Clin. Asst. Prof. Med., State Univ. of New York Coll. of Med.; Brooklyn, N.Y. (2832)

3773. Evaluation of Cardio-Pulmonary Function by Simultaneous Measurements of O^2 Uptake and Cardiac Output.

W. M. Chardack, M.D., Ch. Surg. Serv.; Ted M. Bow, Biochem.; Donald W. S. Stiff, M.D., Act. Dir. RI Serv.; Buffalo, N.Y. (9340)

3774. Hypertension Due to Renal and Other Factors.

Joseph T. Roberts, M.D., Ch. Card. Sect.; Buffalo, N.Y. (2961)

3775. Evaluation of Serum Transaminase Determinations for Early Detection of Myocardial Infarcts.

Joseph T. Aquilina, M.D., Asst. Ch. Med. Serv.; Wells E. Farnsworth, Ph. D., Research Biochem. Gen. Med. Research; Buffalo, N.Y. (2966)

3776. Clinical Evaluation of "Heart Hormone" for Control of Angina Pectoris and Other Vascular Diseases.

Joseph T. Roberts, M.D., Ch. Card. Sect.; Buffalo, N.Y. (2969)

3777. Group Therapy in the Management of Patients with Severe Heart Disease.

Joseph T. Roberts, M.D., Ch. Card. Sect.; Buffalo, N.Y. (2989)

3778. Experimental Evaluation of Internal Mammary Artery Ligation.

Kenneth C. Olson, M.D., Asst. Ch. Surg. Serv.; William M. Chardack, M.D., Ch. Surg. Serv.; Andrew A. Gage, M.D., Staff Surg.; Buffalo, N.Y. (9341)

3779. The Use of Long Term Anticoagulant Therapy in Coronary Disease and Other Thromboembolic Diseases.

Joseph T. Roberts, M.D., Ch. Card. Sect.; Buffalo, N.Y. (2962)

3780. Valvular Heart Disease Treated With Surgery.

Joseph T. Roberts, M.D., Ch. Card. Sect.; Buffalo, N.Y. (2964)

3781. Recording the Heart Beat.

Joseph T. Roberts, M.D., Ch. Card. Sect.; Buffalo, N.Y. (2965)

3782. The Long Term Effect of Pentritol on Coronary Artery Disease Using a "Double Blind" Test.

Joseph T. Roberts, M.D., Ch. Card. Sect.; Buffalo, N.Y. (2968)

3783. Evaluation of "Peritrate"—(Pentaerythritol tetranitrate, PETN) Sustained Action Form and Other Vasodilators in the Relief of Angina Pectoris and Other Cardiovascular Insufficiencies.

Joseph T. Roberts, M.D., Ch. Card. Sect.; Buffalo, N.Y. (2970)

3784. Experimental Coronary Thrombosis—The Protection Afforded by Arterial Implants in the Myocardium.

Andrew A. Gage, M.D., Staff Surg.; Kenneth C. Olson, M.D., Asst. Ch. Surg. Serv.; William M. Chardack, M.D., Ch. Surg. Serv.; Gerard F. Smith, M.D., Resident Gen. Surg.; Buffalo, N.Y. (2971)

3785. A Pacemaker for Experimental Heart Block.

Andrew A. Gage, M.D., Staff Surg.; William M. Chardack, M.D., Ch. Surg. Serv.; Buffalo, N.Y. (2972)

3786. The Early Diagnosis of Chronic Cor Pulmonale as Determined by Ventilatory Function Tests.

Laura M. Cameron, M.D., Phys. TB Serv.; Butler, Pa. (3031)

3787. A Device for Rapid Determination of Cardiac Output by Dye-Dilution.

William T. Powers, B.S., Physicist, Therap. Radiol. Serv.; Stanford K. Sweany, M.D., Ch. Chest Disease Sect.; Chicago (Res.), Ill. (3602)

3788. Study of a New Potent Carbonic Anhydrase Inhibitor (Dichlorphenamide) in the Clinic.

Craig W. Borden, M.D., Ch. Med. Serv.; W. James Kuhl, M.D., Sect. Ch. Metab.; David Earle, M.D., Cons. Intern. Med., Prof. Med., Northwestern Univ.; Chicago (Res.), Ill. (3645)

3789. An Investigation of an Aldosterone-Blocking Agent (SC–8109) in Clinical Conditions Associated with Salt and Water Retention.

Craig W. Borden, M.D., Ch. Med. Serv.; Robert Dowben, M.D., Attend. Intern. Med., VAH, Assoc. Med., Northwestern Univ.; Chicago (Res.), Ill. (3646)

3790. Use of the Bypass Homograft Operation in Segmental Arterial Occlusions.

Harold Laufman, M.D., Attend. Surg., VAH, Assoc. Prof. Surg., Northwestern Univ.; Robert Hohf, M.D., Attend. Surg., VAH, Assoc. Surg., Northwestern Univ.; Otto Trippel, M.D., Ch. Gen. and PV Surg., VAH; Chicago (Res.), Ill. (3674)

3791. Replacement of the Aorta in Dogs with a Graft Made of Ivalon and Nylon.

Otto Trippel, M.D., Ch. Gen. and PV Surg.; Thomas Shields, M.D., Staff Surg. Serv., VAH; F. John Lewis, M.D., Attend. Surg., VAH, Prof. Surg., Northwestern Univ.; Victor Bernhard, M.D., Resident Surg., VAH; Chicago (Res.), Ill. (3680)

3792. Repair of Aortic Stenosis under Direct Vision with the Aid of Hypothermia. Pre- and Post-operative Evaluation.

Floyd Lewis, M.D., Attend. Surg., VAH, Prof. Surg., Northwestern Univ.; Thomas Shields, M.D., Staff Surg., VAH; Craig Borden, M.D., Ch. Med.; William McKeever, M.D., Attend. Med., VAH, Assoc. Med., Northwestern Univ.; Paul Kezdi, M.D., Attend. Cardiac Phys., VAH, Asst. Prof. Med., Northwestern Univ.; Chicago (Res.), Ill. (3686)

3793. Special Study in Aging. Combined Project on Atherosclerosis: Effect of Long Term Anticoagulant Therapy on Coronary Artery Disease.

Craig W. Borden, M.D., Ch. Med. Serv.; George Kroll, M.D., Staff Med. Serv.; Chicago (Res.), Ill. (3701)

3794. Effect of Varying Cation Concentrations Upon Large and Small Systemic Blood Vessels.

Francis J. Haddy, M.D., Ph. D., Clin. Invest., Chicago (Res.), Ill. (3707)

3795. Study of Body Fluid and Electrolyte Compartment.

John A. D. Cooper, Ph. D., M.D., Ch. RI Serv.; Craig W. Borden, M.D., Ch. Med. Serv.; Chicago (Res.), Ill. (3807)

3796. Effect of pH Change Upon Blood Pressure in Humans.

Francis J. Haddy, M.D., Ph. D., Clin. Invest.; Craig W. Borden, M.D., Ch. Med. Serv.; Chicago (Res.), Ill. (3708)

3797. The Effect of Steroids Upon Large and Small Blood Vessels and Their Responsiveness to Norepinephrine and Acetylcholine.

Francis J. Haddy, M.D., Ph. D., Clin. Invest., Chicago (Res.), Ill. (3709)

3798. Arterial Blood Flow Direction Indicator.

Robert K. Clark, Ph. D., Phy. and Assoc. Radiol., Northwestern Univ.; William T. Powers, B.S., Phy., VAH; Edward F. Scanlon, M.D., Attend. Surg., VAH, Assoc. Surg., Northwestern Univ.; Chicago (Res.), Ill. (9090)

3799. The Physiological Factors Affecting Myocardial Metabolism.

Martin Brandfonbrener, M.D., Ch. Cardiovasc. Sec.; Francis J. Haddy, Ph. D., M.D., Clin. Invest.; Chicago (Res.), Ill. (9094)

3800. Operative Treatment of Coronary Sclerosis by Endarterectomy Pre- and Post-operative Evaluation.

Otto H. Trippel, M.D., Sec. Ch. Gen. and PV Surg.; Craig W. Borden, M.D., Ch. Med. Serv., VAH; Floyd John Lewis, M.D., Attend. Surg., VAH, Prof. Surg., Northwestern Univ.; Thomas W. Shields, M.D., Attend. Surg., VAH, Assoc. Surg., Northwestern Univ.; Thomas E. Starzl, M.D., Resident, Surg., VAH; R. Benvenuto, M.D., Resident, Surg.; Victor M. Bernhard, M.D., Resident, Surg.; Chicago (Res.), Ill. (9110)

3801. Effect of Acute Salt Depletion Upon Small and Large Blood Vessels.

Francis J. Haddy, M.D., Ph. D., Clin. Invest., Chicago (Res.), Ill. (9561)

3802. A Comparison of Small and Large Vessel Hematocrits at Two Flow Rates.

Francis J. Haddy, M.D., Ph. D., Clin. Invest.; Chicago (Res.), Ill. (9562)

3803. A Comparison of the Peripheral Vascular Effects of Certain Sympathomimetic Amines.

Francis J. Haddy, M.D., Ph. D., Clin. Invest.; Craig W. Borden, M.D., Ch. Med. Serv.; Chicago (Res.), Ill. (9563)

3804. The Mechanism of Serotonin Edema.

Francis J. Haddy, M.D., Ph. D., Clin. Invest.; Chicago (Res.), Ill. (9564)

3805. The Mechanism of Noradrenaline Edema.

Francis J. Haddy, M.D., Ph. D., Clin. Invest.; Chicago (Res.), Ill. (9565)

3806. Electrocardiographic Autopsy Correlation Study.

Craig W. Borden, M.D., Ch. Med. Serv.; W. H. Wehrmacher, M.D.; Chicago (Res.), Ill. (9575)

3807. Study of Arrhythmias Using the Esophageal Electrocardiogram.

William H. Wehrmacher, M.D., Attend. Int. Med., VAH, Assoc. Med., Northwestern Univ.; Donald A. Anderson, M.D., Res. Med., VAH; Chicago (Res.), Ill. (9576)

3808. Studies on Effects of Estrogens in Young Males With Coronary Atherosclerosis.

Clifford G. Pilz, M.D., Asst. Ch. Med. Serv.; Bernhard Chomet, M.D., Ch. Lab. Serv., VAH; Hyman J. Zimmerman, M.D., Attend. Phys., VAH, Chm. Dept. Med., Prof. Med., Chicago Med. Sch.; Chicago (W.S.), Ill. (3731)

3809. The Effect of Acetylcholine on Pulmonary Vascular Resistance.

R. J. DiSalvo, M.D., Ch. Card. Serv.; Noble O. Fowler, M.D., Ch. Med. Serv.; Cincinnati, Ohio. (3097)

3810. Determination of Cardiac Output by the Dye-Dilution Method With Tricarbocyanine III (Fox Green) as Indicator Dye.

R. J. DiSalvo, M.D., Ch. Card. Serv.; Cincinnati, Ohio. (3098)

3811. The Effect of Citrate Intoxication on the Circulation.

Peter Bercaw, M.D., Fellow Card.; Cincinnati, Ohio. (10387)

3812. The Determination of Adrenal Vein and Systemic Arterial Catecholamines in Experimental Hypoxia and Shock.

Noble O. Fowler, M.D., Ch. Card., VAH; John C. Holmes, M.D., Fellow Card., Univ. of Cincinnati; Nora Chou, Lab. Tech., VAH; Cincinnati, Ohio. (10393)

3813. Hemodynamic Effects of Oligemic Anemia.

Noble O. Fowler, M.D., Ch. Med. Serv., VAH; Ralph Shabetai, M.D., Fellow in Card., Univ. of Cincinnati; John R. Braunstein, M.D., Assoc. Prof. Biophys., Univ. of Cincinnati; Cincinnati, Ohio. (10934)

3814. The Effect of Plasma Volume Expansion on Circulatory Dynamics.

Noble O. Fowler, M.D., Ch. Med. Serv. VAH; Ralph Shabetai, M.D., Fellow. Card., Univ of Cincinnati; John R. Braunstein, M.D., Assoc. Prof. Biophys., Univ. of Cincinnati; Cincinnati, Ohio (10935)

3815. Transmural Ventricular Pressures in Experimental Cardiac Tamponade.

Noble O. Fowler, M.D., Ch. Med. Serv. VAH; Ralph Shabetai, M.D., Fellow in Card., Univ. of Cincinnati; John R. Braunstein, M.D., Assoc. Prof. Biophys., Univ. of Cincinnati; Cincinnati, Ohio (10936)

3816. Clinical Investigation of Iproniazid Amalogue, Ro 5–0831/1, Hoffman-LaRoche Company, and its Effect on Angina.

Robert N. Armen, M.D., Ch. Med. Serv.; Clarksburg, W. Va. (9332)

3817. Studies on the Humoral Mechanism of Hypertension.

Joseph R. Kahn, M.D., Ch. Path.; Leonard T. Skeggs, Ph. D., Ch. Biochem. Sec.; Norman P. Shumway, M.D., Ch. Med. Serv.; Kenneth E. Lentz, Ph. D., Research Biochem.; Cleveland, Ohio (3136)

3818. Studies on Aldosterone Secretion.

Josephine B. Garst, Ph. D., Research Biochem., VAH; Gordon L. Farrell, M.D., Asst. Prof. Phy., Western Reserve Univ. Med. Sch., Attend. Phys. Med., VAH; Harold Schwartz, M.D., Ch. Card. Sec., VAH; Cleveland, Ohio (3139)

3819. Effect of Adrenalectomy on Experimental Renal Hypertension in Dogs.

Paul E. Wisenbaugh, M.D., Ch. Metab. Sec. VAH; William A. Morningstar, M.D., Asst. Ch. Path. VAH; George H. Feil, M.D., Demonstrator Med., Western Reserve Univ. Med. Sch., Attend. Phys. Med. VAH; Cleveland, Ohio (3145)

3820. Antibody Response to Horse Hypertensin-converting Enzyme.

Leonard T. Skeggs, Ph. D., Ch. Research Biochem.; Joseph R. Kahn, M.D., Ch. Lab. Serv.; Robert M. Clark, M.D., Asst. Ch. Path.; Cleveland, Ohio (3823)

3821. The Relationship of the Renin-Angiotensin Mechanism to Renal Excretion of Salt and Water.

Paul E. Wisenbaugh, M.D., Ch. Metab. Sec.; William A. Morningstar, M.D., Ch. Path. VAH; George H. Feil, M.D., Clin. Instr. in Med., Western Reserve Univ., Attend. Phys. VAH; Cleveland, Ohio. (10651)

3822. Effect of Aminophylline on Cardio-pulmonary Hemodynamics.

Stanley M. Pariser, M.D., Asst. Ch. Card. Sec.; Cleveland, Ohio. (10652)

3823. Effect of Molar Sodium Lactate on Pronestyl and Quinidine Intoxication.

Fred Wasserman, M.D., Ch. Med. Serv.; Morris M. Dick, M.D., Ch. Card. Sec.; Paul L. Rodensky, M.D., Resident, Internal Med.; Leonard Brodsky, M.D., Resident, Internal Med.; John H. Kathe, M.D., Resident, Internal Med.; Coral Gables, Fla. (3214)

3824. Further Observations on Resuscitation From Ventricular Fibrillation Following Acute Myocardial Infarction: An Experimental Study.

Fred Wasserman, M.D., Ch. Med. Serv.; Mark W. Wolcott, M.D., Ch. Surg. Serv.; Morris M. Dick, M.D., Ch. Card. Sec.; Leonard Brodsky, M.D., Resident, Internal Med.; Curtis G. Wherry, M.D., Resident, Surg.; Coral Gables, Fla. (3215)

3825. Alpha 2 Proteins in Necrobiosis Lipoidica and Diabetes Mellitus.

Marvin F. Engel, M.D., Resident Derm.; Harvey Blank, M.D., Cons. Derm., VAH, Prof. Derm., Univ. of Miami Sch. of Med.; Coral Gables, Fla. (3222).

3826. Cardiac Arrhythmias During Carotid Angiography.

Ruth A. Rice, M.D., Resident Neur.; Fred Wasserman, M.D., Ch. Med. Serv.; Leonard Brodsy, M.D., Senior Med. Resident; Coral Gables, Fla. (3218)

3827. Appearance of Peripherally Injected Dyes at Varying Intervals After Death in the Cardiac and Arterial Vessels: An Experimental Study.

Ira N. Rosenstein, M.D., Resident, Inter. Med.; Fred Wasserman, M.D., Ch. Med. Serv.; Howard J. Beck, M.D., Resident, Inter. Med.; Coral Gables, Fla. (3225)

3828. Relationship Between Cirrhosis of the Liver and Coronary Thrombosis.

Robert V. Thomson, M.D., Ch. Lab. Serv.; Wilson C. Grant, Ph. D., Superv. Prin. Scien., Gen. Med. and RI Research; Fred Wasserman, M.D., Ch. Med. Serv.; Paul L. Rodensky, M.D., Resident, Inter. Med.; Coral Gables, Fla. (3226)

3829. Durability of Preserved Arterial Homografts.

Mark W. Wolcott, M.D., Ch. Surg. Serv., VAH; William A. Shaver, M.D., Attend. Sp. Gen. Surg., VAH, Clin. Instr. Gen. Surg., Univ. Miami Sch. Med.; Jay N. Wemple, M.D., Resident, Gen. Surg., VAH; Harold K. Golder, M.D., Resident, Gen. Surg.; Walter B. Grenell, M.D., Resident, Gen. Surg.; Coral Gables, Fla. (3227)

3830. The Effect of Quinidine and Procaine Amide on Digoxin Tolerance Test.

Fred Wasserman, M.D., Asst. Card., Asst. Dir. Prof. Serv. for Research; Paul L. Rodensky, M.D., Resident, Int. Med.; John H. Kathe, M.D., Resident, Int. Med., Coral Gables, Fla. (8515)

3831. Mechanical Heart Massager.

Mark W. Wolcott, M.D., Ch. Surg. Serv.; Curtis G. Wherry, M.D., Resident Gen. Surg.; Fred Wasserman, M.D., Asst. Dir., Prof. Serv. for Research; Coral Gables, Fla. (8876)

3832. The Detection of Abnormal Proteins in the Blood After Myocardial Infarction.

Wilson C. Grant, Ph. D., Super. Prin. Scien., Research Dept.; Catherine C. Ashley, A.B., Biochem.; Fred Wasserman, M.D., Asst. Dir. Prof. Serv. for Research; Coral Gables, Fla. (8873)

3833. Influence of Avocado Feeding on Blood Lipids.

Wilson C. Grant, Ph. D., Super. Prin. Scien., Research Dept.; Catherine C. Ashley, A.B., Biochem.; Coral Gables, Fla. (8877)

3834. Study of the Mechanism of Action of Sodium Lactate on Heart Beat.

Alvin S. Blum, B. Sc., Prin. Scien. RI Lab.; Albert E. Johnson, Jr., B. Sc., Biochem. RI Lab.; Fred Wasserman, M.D., Asst. Dir. Prof. Serv. for Research; Coral Gables, Fla. (8878)

3835. The Effects of Mitral Stenosis and Cardiac Disease on Pulmonary Diffusion and the Capillary Blood Volume.

Russell H. Wilson, M.D., Ph. D., Asst. Dir. Prof. Serv.; Dallas, Tex. (3278)

3836. The Cerebral Hemodynamic and Metabolic Changes Following Recovery From Cardiac Arrest.

Seymour Eisenberg, M.D., Asst. Ch. Med. Serv.; Dallas, Tex. (3303)

3837. Blood Volume in Subjects With Varicose Veins.

Seymour Eisenberg, M.D., Asst. Ch. Med. Serv.; Dallas, Tex. (3304)

3838. Studies of Cardiac Output in Various Stages of Congestive Heart Failure.

Seymour Eisenberg, M.D., Asst. Ch. Med. Serv.; Roger H. Unger, M.D., Ch. GI; Dallas, Tex. (3305)

3839. Application of the Concentration Cell to Study of Valvular Insufficiency.

Ben Friedman, M.D., Ch. Med. Serv.; Dallas, Tex. (3306)

3840. Effect of Insulin Induced Hypoglycemia on Cerebral Glucose Metabolism and Cerebral Blood Flow.

Seymour Eisenberg, M.D., Asst. Ch. Med. Serv.; Holbrooke S. Seltzer, M.D., Ch. Metab. Unit; Dallas, Tex. (3309)

3841. The Renal Effects of Certain Substitutes Injected Into the Renal Artery of the Dog.

Seymour Eisenberg, M.D., Asst. Ch. Med. Serv.; Dallas, Tex. (3311)

3842. The Influence of Arlidin on Cerebral Blood Flow and Metabolism in Persons With Cerebral Arterial Sclerosis and in Normal Subjects.

Seymour Eisenberg, M.D., Asst. Ch. Med. Serv.; Dallas, Tex. (3313)

3843. An Attempt To Produce Type Specific Acute Glomerulonephritis in the Dog.

Seymour Eisenberg, M.D., Asst. Ch. Med Serv.; Dallas, Tex. (3314)

3844. Chromium^{51} Blood Volume Studies on Patients with Congestive Heart Failure; Further Studies.

Seymour Eisenberg, M.D., Asst. Ch. Med. Serv.; Mary Sue McCall, Biol. RI Serv.; Lora Sue Keller, Biol. RI Serv.; Dallas, Tex. (3340)

3845. The Penetration of Radiodextran into Ascitic Accumulations in Patients with Laennec's Cirrhosis and Changes in Plasma Volume Incident to Paracentesis.

Seymour Eisenberg, M.D., Asst. Ch. Med. Serv.; Mary Sue McCall, Biol. RI Serv.; Dallas, Tex. (3345)

3846. Blood Volume Alterations in Persons with the Nephrotic Syndrome.

Seymour Eisenberg, M.D., Asst. Ch. Med. Serv.; Lora S. Keller, Biol. RI Serv.; Dallas, Tex. (3346)

3847. The Body Hematocrit/Venous Hematocrit Ratio as Determined with Radiochromium Labeled Red Cells and Radiodextran.

Seymour Eisenberg, M.D., Asst. Ch. Med. Serv.; Mary Sue McCall, Biol. RI Serv.; Dallas, Tex. (3347)

3848. Urine Aldosterone in Persons Developing Cardiac Edema.

Seymour Eisenberg, M.D., Asst. Ch. Med. Serv.; Dallas, Tex. (8773)

3849. Surgical Correction of Mitral Insufficiency.

Robert H. Holland, M.D., Ch. Thoracic Surg.; Nancy Amil, M.D., Resident Thoracic Surg.; Dallas, Tex. (10335)

3850. Case Report of Non-functioning Lung.

Berkeley Slutzker, M.D., Asst. Ch. Med. Chest Sec.; Dayton, Ohio. (3367)

3851. Development of an Internal Portable Pacemaker.

James Taguchi, M.D., Ch. Card. Sec.; Roland Bridenbaugh, Engineer; Dayton, Ohio. (3372)

3852. Development of an External Portable Pacemaker.

James Taguchi, M.D.; Roland Bridenbaugh; Dayton, Ohio. (3373)

3853. Incidence of Coronary Arteriosclerosis in Stillbesterol Treated Patients.

Samuel Laneve, M.D., Phys. Med.; Dayton, Ohio. (3379)

3854. Vascular Grafts: A Collective Review Comparing Homografts With Prosthetic Grafts.

Glen B. Van Atta, M.D., Resident Surg.; Dayton, Ohio. (3393)

3855. Thrombophlebitis—Experience in This Institution.

Richard J. Ireton, M.D., Ch. Surg. Serv.; Dayton, Ohio. (12034)

3856. Cranial Dimensions and Size of the Tentorial Incisure.

H. F. Plaut, M.D., Act. Ch. Radiol. Serv.; Dayton, Ohio. (12053)

3857. Correlation of Occupational and Residential Histories in Relation to the Development of Pulmonary Emphysema With and Without Cor Pulmonale.

Berkeley Slutzker, M.D., Asst. Dir. Prof. Serv. for Research; Preston C. Johnson, M.D., Asst. Ch. Card. Sect.; Dayton, Ohio. (12055)

3858. ECG Correlation With Anatomical Ventricular Hypertrophy.

Berkeley Slutzker, M.D., Asst. Ch. Med. Chest Sec.; Edward B. Lefkin, M.D., Ch. Neur. Sec.; Dayton, Ohio. (12076)

3859. Diffusion and Distribution Characterization of the Lung in Heart Failure: Their Relations to Pulmonary "Congestion" and Edema.

B.M. Lewis, M.D., Cons. VAH, Asst. Prof. Med. and Dir. of Pulm. Lab., Wayne State Univ.; L. J. Baer, M.D., Ch. Card. Sec., VAH; H. K. Hellems, M.D., Cons. VAH, Asst. Prof. Med., Wayne State Univ.; Dearborn, Mich. (3442)

3860. Circulatory Dynamics in Acute Glomerulonephritis.

H. K. Hellems, M.D., Cons. VAH, Asst. Prof. Med., Wayne State Univ.; V. DeFazio, M.D., Inst. Med., Wayne State Univ.; Y. Morita, M.D., Cons. VAH, Asst. Prof. Med., Wayne State Univ.; R. C. Christensen, M.D., Clin. Invest., VAH; L. J. Baer, M.D., Ch. Card. Sec.; Dearborn, Mich. (3443)

3861. The Effects of Hypoxia on Coronary Blood Flow and Myocardial Metabolism in Normal Human Subjects.

H. K. Hellems, M.D., Cons. VAH, Asst. Prof. Med., Wayne State Univ.; J. W. Ord, M.D., Resident, Intern. Med.; F. N. Talmers, M.D., Staff Card.; R. C. Christensen, M.D., Clin. Invest.; Dearborn, Mich. (3444)

3862. The Coronary Circulation in the Anemic Human Subject.

R. C. Christensen, M.D., Clin. Invest.; F. N. Talmers, M.D., Staff Card., VAH; H. K. Hellems, M.D., Cons. VAH, Asst. Prof. Med., Wayne State Univ.; Dearborn, Mich. (3445)

3863. The Effects of Aminophylline on the Coronary and Peripheral Circulation in Patients With Emphysema.

R. C. Christensen, M.D., Clin. Invest.; M. Gray, M.D., Senior Resident; H. Abramson, M.D., Card. Fellow; L. J. Baer, M.D., Ch. Card. Sec., VAH; H. K. Hellems, M.D., Cons. VAH, Asst. Prof. Med., Wayne State Univ.; Dearborn, Mich. (3446)

3864. Relationship of Filling Pressure to Cardiac Function.

R. C. Christensen, M.D., Clin. Invest.; L. J. Baer, M.D., Ch. Card. Sec., VAH; H. K. Hellems, M.D., Cons. VAH, Asst. Prof. Med., Wayne State Univ.; Dearborn, Mich. (3447)

3865. The Effects of Aminophylline on the Respiratory Depressant Effects of 100 Percent Oxygen Inhalation in Patients With Emphysema.

R. C. Christensen, M.D., Clin. Invest.; L. J. Baer, M.D., Ch. Card. Sec., VAH; H. K. Hellems, M.D., Cons. VAH, Asst. Prof. Med., Wayne State Univ.; Dearborn, Mich. (3448)

3866. Mechanisms of the Circulatory Dynamic Changes in Acute Glomerulonephritis.

R. C. Christensen, M.D., Clin. Invest.; L. J. Baer, M.D., Ch. Card. Sec., VAH; H. K. Hellems, M.D., Cons., VAH, Asst. Prof. Med., Wayne State Univ.; Dearborn, Mich. (3449)

3867. Studies With Gibbon Pump Oxygenation.

P. Jordan, M.D., Cons., VAH, Assoc. Prof. Surg., Wayne State Univ.; L. F. Jacobson, M.D., Surg. Staff, VAH; R. J. Castellani, M.D., Staff Surg.; Dearborn, Mich. (3453)

3868. The Relation of Airway Resistance and Residual Volume to Prognosis in Pulmonary Emphysema.

T. H. Snider, M.D., Senior Ward Phys.; J. P. Stevens, M.D., Ward Phys., VAH; B. M. Lewis, M.D., Cons., VAH, Asst. Prof. Med. & Dir. Pulm. Lab., Wayne State Univ.; Dearborn, Mich. (9361)

3869. Production of a Pump Oxygenator for Total Cardiac By-Pass.

B. Eiseman, M.D., Ch. Surg. Serv.; W. G. Malette, M.D., Surg. Fellow; W. B. Summers, M.D., Surg. Resident; Denver, Colo. (3486)

3870. Studies of Air Embolism.

B. Eiseman, M.D., Ch. Surg. Serv.; W. G. Malette, M.D., Surg. Fellow; W. B. Summers, M.D., Surg. Resident; Denver, Colo. (3487)

3871. An Artificial Mitral Valve.

B. Eiseman, M.D., Ch. Surg. Serv.; Denver, Colo. (3502)

3872. Possible Protective Effect of Aortic Insufficiency on Development of Atherosclerosis.

B. Eiseman, M.D., Ch. Surg. Serv., VAH; J. Phillip Clarke, M.D., Pract. Surg.; Joseph L. Kovarik, M.D., Pract. Surg.; Denver, Colo. (9451)

3873. The Effect of Long-Term Anti-Coagulant Therapy on Obliterative Atherosclerosis of the Abdominal Aorta and Branches.

E. R. Huffman, M.D. (Form. Ch. Card. Sec.); B. Eiseman, M.D., Ch. Surg. Serv.; Denver, Colo. (9452)

3874. Direct Arteriogram of the Lower Abdominal Aorta or Common Iliac Artery.

Louis T. Palumbo, M.D., Ch. Surg. Serv.; Wendell S. Sharpe, M.D., Sec. Ch. Gen. Surg.; Donald J. Lulu, M.D., Asst. Sec. Ch. Gen. Surg.; Des Moines, Iowa. (3542)

3875. Injection and Dissection of Coronary Arteries of the Human Heart Postmortem.

A. J. Bruecken, Jr., M.D., Asst. Ch. Lab. Serv.; Des Moines, Iowa. (3558)

3876. Studies in Cerebral Atherosclerosis.

Kenneth D. Brown, Ph. D., Ch. Geriatrics Research Proj.; Frederick T. Zugibe, B.S., Histochem.; Marilyn L. Fink, B.S., Med. Tech.; Downey, Ill. (3835)

3877. The Effects of Anti-Atherogenic Agents on the Ground Substance and Blood Lipids in Coronary Atherosclerosis.

Kenneth D. Brown, Ph. D., Ch. Geriatrics Research Proj.; Frederick T. Zugibe, B.S., Histochem.; Marilyn L. Fink, B.S., Med. Tech.; Downey, Ill. (3836)

3878. Changes in Ground Substance Polysaccharides in Atherosclerosis and Other Pathological Conditions.

Kenneth D. Brown, Ph. D., Ch. Geriatrics Research Proj.; J. Raymond Helbert, M.S., Biochem.; Downey, Ill. (9347)

3879. Alimentary Lipemia and Coronary Artery Disease in Two Racial Groups.

Arnold M. Weissler, M.D., Assoc. Med., Resid. Med., Duke Med. Center; O. W. Shapiro, M.D., Sr. Asst. Resid. Med., VAH; Durham, N.C. (3849)

3880. The Respiratory Alkalosis Seen in Association With Hepatic Coma.

Malcolm P. Tyor, M.D., Ch. GI Sec., VAH; Herbert O. Sieker, M.D., Cons. VAH, Assoc. Prof Med., Duke Med. Center; Edward E. Owen, M.D., Asst. Resident Med., VAH; Durham, N.C. (3861)

3881. A Study of the Effect of Diet, Physical and Mental Stress on Serum Cholesterol and Serum Lipoprotein.

E. H. Estes, Jr., M.D., Ch. Med. Serv., VAH; S. J. Friedberg, M.D., Research Fellow, Duke Med. Center; D. L. Trout, Ph. D., Biochem., VAH; Morton Bogdonoff, M.D., Cons. VAH, Assoc. Prof. Med., Duke Med. Center; W. J. Harlan, M.D., Research Fellow, Duke Med. Center; Durham, N.C. (3879)

3882. The Mechanism of Vasodepressor Syncope.

Arnold M. Weissler, M.D., Card.; E. H. Estes, M.D., Asst. Ch. Cardiovasc.-Renal Sec., VAH; James V. Warren, M.D., Prof. Med., Duke Univ.; Durham, N.C. (3881)

3883. Observations on the Significance of the Delayed Appearance of the First Heart Sound in Mitral Stenosis.

Arnold M. Weissler, M.D., Card.; James J. Leonard, M.D., Resident, Med. Serv., VAH; James V. Warren, M.D., Cons., VAH, Prof. Med., Duke Univ.; Durham, N.C. (3884)

3884. Effects of Posture and Atropine on Cardiac Output.

Arnold M. Weissler, M.D., Card.; James J. Leonard, M.D., Resident Med. Serv., VAH; James V. Warren, M.D., Cons., VAH, Prof. Med., Duke Univ.; Durham, N.C. (3885)

3885. Experimental Studies on Ventricular Gallop Rhythm.

Arnold M. Weissler, M.D., Card. Med. Serv.; James J. Leonard, M.D., Resident Med. Serv., VAH; James V. Warren, M.D., Cons., VAH, Prof. Med., Duke Univ.; Durham, N.C. (3886)

3886. The Mechanism of the Auricular Gallop.

James J. Leonard, M.D., Resident Med. Serv.; Arnold M. Weissler, M.D., Card. Med. Serv., VAH; James V. Warren, M.D., Cons., VAH, Prof. Med., Duke Univ.; Durham, N.C. (3887)

3887. Ventilatory Function and Intrapulmonary Gas Mixing in Patients with Pulmonary Emphysema, Obesity and Heart Failure.

H. O. Sieker, M.D., Cons., VAH, Assoc. Prof. Med., Duke Med. Cent.; Jane Kelly, A.B., Med. Tech. Med. Research, VAH; Durham, N.C. (3894)

3888. A Study of Mechanisms Monitoring the Blood Volume.

H. O. Sieker, M.D., Cons., VAH, Assoc. Prof. Med., Duke Med. Cent.; H. V. Murdaugh, Jr., M.D., Clin. Invest. Med., VAH; Durham, N.C. (3890)

3889. The Quantitation and Fractionation of Hexosamines in Lung Tissue and Sputum.

Herbert A. Saltzman, M.D., Ch. Pulm. Serv.; Muriel K. Schauble, M.D., Resident Path., VAH; Herbert O. Sieker, M.D., Assoc. Prof. Med., Duke Med. Center; Randolph Vanderbeak, B.S., Med. Student, Duke Med. Center; Durham, N.C. (3895)

3890. A Comparison of the Effects of Isoproteranol and Acetylcholine and Acetyl Strophanthidine in Subjects with Emphysema Heart Disease, Subjects with Congestive Heart Failure and Normal Subjects.

Kaye H. Kilburn, M.D., Duke Med. Serv.; H. O. Sieker, M. D., Asst. Ch. Med. Serv., VAH; Durham, N.C. (3898)

3891. Effect of Excision of Portions of the Left Ventricle on Cardiac Output.

Marcus L. Dillon, M.D., Asst. Ch. Surg. Serv.; Durham, N.C. (3901)

3892. Problems with High Flow Extra-Corporeal Circulation.

Marcus L. Dillon, M.D., Asst. Ch. Surg. Serv.; Durham, N.C. (3902)

3893. Surgical Relief of Acute Coronary Artery Occlusion.

Marcus L. Dillon, M.D., Asst. Ch. Surg. Serv.; James F. Schauble, M.D., Asst. Resident Surg. Serv.; Durham, N.C. (3903)

3894. Chronic Venous Insufficiency.

William G. Anlyan, M.D., Assoc. Prof. Anes., Assoc. Prof. Surg., Duke Med. Center; James F. Schauble, M.D., Asst. Resid. Instr. Surg., Duke Med. Center; R. W. Postlethwait, M.D., Ch. Surg. Serv., VAH; Durham, N.C. (3912)

3895. Vein Grafts.

William G. Anlyan, M.D., Assoc. Prof. Surg., Duke Univ.; James F. Schauble, M.D., Asst. Resident Surg., Duke Univ.; R. W. Postlethwait, M.D., Ch. Surg. Serv., VAH; Durham, N.C. (3916)

3896. A Study of Cardiopulmonary Function in Myotonia Dystrophica.

Kaye H. Kilburn, M.D., Med. Serv., Duke Univ.; Albert Heyman, M.D., Ch. Neur. Sec.; Durham, N.C. (3956)

3897. A Study of the Effects of Positive and Negative Pressure Breathing on Cardiac Output and Blood Volume in Normal Subjects.

Kaye H. Kilburn, M.D., Med. Serv., Duke Univ.; H. O. Sieker, M.D., Asst. Ch. Med. Serv.; Durham, N.C. (3969)

3898. A Study of the Cardiovascular and Pulmonary Function During the Acute Phase of Pulmonary Embolism.

Herbert Saltzman, M.D., Ch. Pulm. Serv.; John M. Wallace, M.D., Ch. Cardiovasc.-Renal Sec.; Durham, N.C. (9532)

3899. Difference in the Blood Pressure in Essential Hypertension and Norepinephrine Hypertension.

John M. Wallace, M.D., Ch. Cardiovasc.-Renal Sec.; Durham, N.C. (9533)

3900. Studies of Peripheral Arterial and Venous Reflexes by Means of a Technique not Previously Utilized for this Purpose.

John M. Wallace, M.D., Ch. Cardiovasc.-Renal Sec., VAH; E. A. Stead, Jr., M.D., Cons. VAH, Prof. Med., Duke Med. Center; O. W. Shapiro, M.D., Sr. Asst. Resident Med., VAH; Durham, N.C. (9534)

3901. Studies of Peripheral Blood Pressure and Resistance During Reactive Hyperemia.

John M. Wallace, M.D., Ch. Cardiovasc.-Renal Sec., VAH; E. A. Stead, Jr., M.D., Cons. VAH, Prof. Med., Duke Med. Center; Durham, N.C. (9535)

3902. Blood Flow and Blood Pressure Determinations in Carotid and Vertebral Arteries of Man.

Blaine S. Nashold, Jr., M.D., Ch. Neurosurg. Sec.; Durham, N.C. (9536)

3903. Effect of Parkinsonism in Respiratory Function.

K. Tripathy, M.D., Fellow in Med., Duke Med. Center; Albert Heyman, M.D., Ch. Neur. Sec. VAH; Durham, N.C. (9537)

3904. Changes in Portal Flow Before and After Shunt Procedures.
Marcus L. Dillon, M.D., Asst. Ch. Surg. Serv.; R. W. Postlethwait, M.D., Ch. Surg. Serv.; Durham, N.C. (9538)

3905. A Re-Evaluation of Thoracic Aortic Aneurysms.
Marcus L. Dillon, M.D., Asst. Ch. Surg. Serv.; Durham, N.C. (9539)

3906. Physiologic Studies in Peripheral Arterial Disease.
Marcus L. Dillon, M.D., Asst. Ch. Surg. Serv.; Durham, N.C. (9540)

3907. Coronary Angiography During Hypothermia.
Marcus L. Dillon, M.D., Asst. Ch. Surg. Serv.; Walter L. Floyd, M.D., Card.; Durham, N.C. (9541)

3908. Electrocardiogram in Chronic Cor Pulmonale.
Irving Schwartz, M.D., TB Serv.; Hyam A. Weiner, M.D., Ch. Med. Serv.; East Orange, N.J. (3994)

3909. *In Vitro* Calcification of the Aorta.
Stanley W. Morgenstern, B.S., Biochem. Med. Research Lab.; East Orange, N.J. (4006)

3910. Giant Negative T Waves.
Harold Wasserman, M.D., Resident, Med. Serv.; East Orange, N.J. (4009)

3911. Electrocardiographic Changes Seen in Acute Cor Pulmonale When Superimposed on an Existing Chronic Cor Pulmonale.
Anthony J. Bruno, M.D., Resident, Med. Serv.; East Orange, N.J. (9419)

3912. Electrocardiographic Diagnosis of Ventricular Tachycardia.
Ralph Miller, M.D., Attend. Med. Serv.; Jacob Wolansky, M.D., Resident, Med. Serv.; East Orange, N.J. (9420)

3913. Heart Sound Recording.
William S. Harper, M.D., Phys.; William B. DeMond, M.D., Ch. Med. Serv.; Fort Harrison, Mont. (4060)

3914. Serum Transaminase Determinations in Cardiac and Hepatic Disease.
Irving Freeman, M.D., Ch. Med. Serv.; Fort Howard, Md. (4062)

3915. 5-Hydroxy-3-Indoloacetic Acid Excretion in Asthma, Vasomotor Instability and Diarrheal States.
Irving Freeman, M.D., Ch. Med. Serv.; James Nolan, M.D., Asst. Ch. Med. Serv.; Abraham Polachek, M.D., Ch. RI Serv.; Deborah A. Jackson, B. S., Biochem., Gen. Med. Res.; Charles S. Collier, Med. Biol. Tech.; Fort Howard, Md. (4064)

3916. Studies of Mast Cells in Coronary Arteries.
Norman Ende, M.D., Ch., Lab. Serv.; Edward I. Cherniss, M.D., Med. Serv.; Fresno, Calif. (4105)

3917. Comparison in Blood Up-Take of Unsaturated Fats and Saturated Fats by the Use of Radioactive I-131.

Menifee S. McDonald, M.D., Asst. Ch. Med. Serv.; Norman Ende, M.D., Ch. Lab. Serv.; Fresno, Calif. (4109)

3918. Radioiodinated Fat Metabolism in Patients With Arteriosclerosis or Diabetes.

Abraham A. Polachek, M.D., Ch. RI Serv.; Charles Hux, B. S., Gen. Med. Tech.; Fort Howard, Md. (9481)

3919. Differential Renal Radiosodium and Radiodiodrast Studies in Hypertensive Patients.

Howard C. Kramer, M.D., Ward Phys. Surg. Serv.; Abraham A. Polachek, M.D., Ch. RI Serv.; Irving Freeman, M.D., Ch. Med. Serv.; Herman J. Meisel, M.D., Sect. Ch. Urol.; Fort Howard, Md. (9482)

3920. Osmotic Diuretics in the Treatment of Refractory Edema of Cardiac Failure, Cirrhosis and Nephrotic Syndrome.

Lionel M. Bernstein, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Bernard Blumberg, M.D., Resident, Med. Serv.; Murray Arkin, M.D., Resident, Med. Serv.; Hines, Ill. (4195)

3921. To Determine Whether the Quantity and Quality of Dietary Fat Influences the Plasma Lipids and Clinical Course of Patients With Evidence of Coronary Disease.

Lyle A. Baker, M.D., Ch. Med. Serv.; Donald T. Foxworthy, M.D., Ch. Cardiovasc. Sect.; Ervin Kaplan, M.D., Act. Assoc. Dir. RI Serv.; John Berry, M.D., Staff Phys., Med. Serv.; Smith Freeman, M.D., Ph. D., Cons. Research, VAH, Prof. and Chm. Dept. of Biochem., Northwestern Univ. Med. Sch.; Joanna X. Wheeler, B. S., Biochem., Research Serv.; Hines, Ill. (4196)

3922. Delineation of the Changes in Body Composition Resulting From Osmotic Diuretic Treatment of Refractory Edema.

Lionel M. Bernstein, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Ervin Kaplan, M.D., Act. Assoc. Dir. RI Serv.; Hines, Ill. (4201)

3923. Clinical Evaluation of a New Cardiac Antiarrhythmic Agent.

John Berry, M.D., Staff Phys., Med. Serv.; Donald T. Foxworthy, M.D., Ch. Cardiovasc. Sect.; Lyle A. Baker, M.D., Ch. Med. Serv.; Hines, Ill. (4202)

3924. Determination of Cardiac Output by Monitoring the Aortic Transport of a Single Dose of Gamma-emitting Solution.

Ervin Kaplan, M.D., Act. Assoc. Dir. RI Serv.; Douglas David, M.D., Ch. Cardiopulm. Lab.; T. Fields, M.S., Radiophys.; Hines, Ill. (4204)

3925. The Effect of Altered Force of Cardiac Contraction on the Interrelationships of Blood Pressure, Cardiac Output, and Peripheral Resistance.

Lionel M. Bernstein, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Hines, Ill. (4212)

3926. To Determine From Physical Findings and Arteriograms, Prognosis for Patients with Bilateral Arteriosclerosis Obliterans, with Subsequent Bilateral Amputation.

William Grove, M.D., Attend., Peripheral Vasc. Surg. Sec.; Richard Powers, M.D., Resident, Surg. Serv.; Hines, Ill. (4224)

3927. The Formation of Plaques in the Aorta.

I. Gordon Fels, Ph. D., Biochem., Asst. Dir. RI Serv.; Thaddeus I. Kanabrocki, Dent. Tech.; Eugene L. Kanabrocki, B.S., Biochem., RI Serv.; Hines, Ill. (4332)

3928. Cardiac Monitor for Surgery and Resuscitation.

Theodore Fields, M.S., Radiophys., RI Serv.; Ervin Kaplan, M.D., Act. Assoc. Dir. RI Serv.; Joseph Kenski, Lab. Electronics Mechanic, RI Serv.; Hines, Ill. (4344)

3929. The Use of Concentrated Solutions of Urea as an Osmotic Diuretic in Refractory Cardiac Edema.

Lionel M. Bernstein, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Hines, Ill. (10359)

3930. Clinical Evaluation of Mono-Sodium Glutamate.

Hugh D. Bennett, M.D., Ch. Med. Serv.; Houston, Tex. (4347)

3931. Hepatic Regeneration.

Hugh D. Bennett, M.D., Ch. Med. Serv.; W. Morse Hicks, Jr., M.D., Asst. Ch. Med. Serv.; Houston, Tex. (4351)

3932. The Effects of Ganglionic Blockade on Diuresis and Natriuresis in Patients With and Without Congestive Heart Failure.

Jethro B. Rochelle, III, M.D., Staff Phys.; Allen C. Bullock, M.D., Staff Phys. VAH; Ralph V. Ford, M.D., Attend. VAH, Clin. Asst. Prof. Med. and Pharm., Baylor Univ.; Houston; Tex. (4353)

3933. Evaluation of Competitive Diuretic Mechanisms.

Jethro B. Rochelle, III, M.D., Staff. Phys. VAH; Ralph V. Ford, M.D., Attend. VAH, Clin. Asst. Prof. Med. and Pharm., Baylor Univ.; Houston, Tex. (4356)

3934. The Effects of Linoleic Acid (Lufa) on Serum Lipoproteins.

W. Morse Hicks, Jr., MD., Assist. Ch. Med. Serv., VAH; A. Clark Griffin, Ph. D., Chm. and Prof. Dept. Biochem., Baylor Univ.; Don W. Chapman, M.D., Attend. VAH, Clin. Asst. Prof. Med., Baylor Univ.; Don Rochelle, M.D., Resident, VAH; Houston, Tex. (4360)

3935. Development of a Method for Labeling Snake Venom.

James Giacobine, M.D., Instr. Thoracic Surg., Baylor Univ. Coll. of Med.; Roy V. Talmage, Ph. D., Chm. Biol. Dept., Rice Inst.; Mary C. Morgan, M.D., Ch. RI Serv., VAH; Vernice Cook, M.S., Asst. Ch. RI Serv., Radiol. Safety and Admins.; Fred White, Ph. D., Prof. Biol., Univ. of Houston; Houston, Tex. (4462)

3936. Evaluation of Anti-Inflammatory Effects of Water-Soluble Bio-Flavonoid AS-CX.

Hollis G. Boren, M.D., Staff Phys.; Hugh D. Bennett, M.D., Ch. Med. Serv.; Jethro B. Rochelle, III, M.D., Staff Phys.; George W. Curd, Jr., M.D., Staff Phys.; Houston, Tex. (4392)

3937. The Effect of Chronic Hypercholesterolemia Upon Autografts and Homografts of the Canine Thoracic Aorta.

George L. Jordan, Jr., M.D., Ch. Surg. Serv., VAH; Michael E. DeBakey, M.D., Cons. VAH, Chm. and Prof., Dept. Surg., Baylor Univ.; Béla Halpert, M.D., Ch. Lab. Serv., VAH; Houston, Tex. (4393)

3938. The Effect of Beta Sitosterol, Linoleic and Linolenic Acid, and Estradiol Valerate Upon Experimentally Produced Hypercholesterolemia and Upon the Development of Atherosclerosis in the Dog.

George L. Jordan, Jr., M.D., Ch. Surg. Serv.; Houston, Tex. (4394)

3940. The Effect of Chronic Hypercholesterolemia Upon the Coronary Arteries of the Dog.

George L. Jordan, Jr., M.D., Ch. Surg. Serv.; Houston, Tex. (4395)

3941. Renal Homotransplantation.

George L. Jordan, Jr., M.D., Ch. Surg. Serv.; Houston, Tex. (4398)

3942. Homotransplantation of the Spleen.

George L. Jordan, Jr., M.D., Ch. Surg. Serv.; Houston, Tex. (4399)

3943. The Interrelation of Protein Depletion, Testosterone, and Cortisone on Wound Healing.

Samuel W. Law, M.D., Resident Thoracic Surg.; George L. Jordan, Jr., M.D., Ch. Surg. Serv.; Béla Halpert, M.D., Ch. Lab. Serv.; Houston, Tex. (4402)

3944. Physiologic Alterations in Patients with the "Dumping Syndrome"—Alterations in Renal Function, Plasma, Water, Electrocardiogram, and Blood Volume.

George C. Morris, Jr., M.D., Attend., VAH, Asst. Prof. Surg., Baylor Univ.; George L. Jordan, Jr., M.D., Ch. Surg. Serv., VAH; Houston, Tex. (4403)

3945. The Effects of Parathyroid Homotransplantation Upon Subsequent Acceptance of Homotransplanted Skin.

George L. Jordan, Jr., M.D., Ch. Surg. Serv.; Houston, Tex. (4409)

3946. Effect of Desoxyribonucleic Acid Upon the Acceptance of Homotransplanted Skin.

George L. Jordan, Jr., M.D., Ch. Surg. Serv.; Houston, Tex. (4410)

3947. The Use of Hypothermia in Control of Cerebral Edema and Vascular Collateral Formation.

Robert C. L. Robertson, M.D., Cons., VAH, Clin. Prof. Neurosurg., Baylor Univ.; Claude Pollard, Jr., M.D., Attend., VAH, Clin. Assoc. Prof. Surg., Baylor Univ.; Basil M. Yates, M.D., Resident, VAH; Joseph W. Robertson, M.D., Ch. Neurosurg. Sect.; Houston, Tex. (4414)

3948. Maintenance of Quinidine Blood Levels After Administration of a Long-Acting Quinidine Preparation.

Don W. Chapman, M.D., Attend. Phys., VAH, Clin. Prof. Med., Baylor Univ.; A. Clark Griffin, Ph. D., Chm. Dept. and Prof. Biochem., Baylor Univ.; Malcolm B. Daniell, B.A., Junior Med. Student, Baylor Univ.; John M. Lewis, M.D., Resident Med., VAH; Houston, Tex. (8780)

3949. Physiologic Effects of Complete Homotransplantation of Canine Heart and Lungs.

Sam W. Law, M.D., Resident Thoracic Surg.; Riley P. Foster, M.D., Asst. Ch. Surg. Serv.; George L. Jordan, Jr., M.D., Ch. Surg. Serv.; Hollis G. Boren, M.D., Phys.; Houston, Tex. (8787)

3950. An Experimental Study of the Production, Evaluation, and Pharmacologic Alteration of Pulmonary Hypertension.

Sam W. Law, M.D., Resident Thoracic Surg., VAH; Malcolm B. Daniell, B.A., Junior Med. Student, Baylor Univ.; Ethel Erickson, M.D., Asst. Ch. Path. Serv., VAH; Don W. Chapman, M.D., Cons., VAH, Clin. Prof. Med., Baylor Univ.; Houston, Tex. (8788)

3951. The Effect of 6-(Trifluoromethyl)-1,4,2-benzothiadiazine-7-sulfonamide, 1,1-dioxide on Electrolyte Excretion and as an Antihypertensive Agent.

Alfredo C. Montero, M.D., Resident Med., VAH; Ralph V. Ford, M.D., Cons., VAH, Clin. Asst. Prof. Med., Baylor Univ.; Houston, Tex. (8791)

3952. Use of Plastic as Dural Substitute.

Joseph W. Robertson, M.D., Ch. Neurosurg. Sect.; Basil M. Yates, M.D., Resident Neurosurg.; Carl F. Culicchia, M.D., Resident Neurosurg.; Houston, Tex. (8796)

3953. Evaluation of Hydrochlorothiazide as an Adjunct in the Chronic Therapy of Hypertension.

Jethro B. Rochelle III, M.D., Staff Phys. Med., VAH; Ralph V. Ford, M.D., Attend., VAH, Clin. Asst. Prof. Med. Pharm., Baylor Univ.; Houston, Tex. (8961)

3954. Correlation of Electrocardiograms Showing Left Axis Deviation With Necropsy Data.

W. Morse Hicks, Jr., M.D., Asst. Ch. Med. Serv.; George W. Curd, Jr., M.D., Staff Phys. Med.; Ferenc Györkey, M.D., Path.; John R. Norman, M.D., Resid. Intern. Med.; Houston, Tex. (8962)

3955. Development of Methodology for Study of Renal Functional Capacity With Respect to Ammonia Formation and Its Correlation With Certain Discrete Renal Functions.

John M. Lewis, M.D., Resident Med.; Ralph V. Ford, M.D., Attend., VAH, Clin. Asst. Prof. Med. and Pharm., Baylor Univ.; Houston, Tex. (913)

3956. The Effect of Chronic Hypercholesterolemia on Synthetic Aortic Substitutes.

George L. Jordan, Jr., M.D., Ch. Surg. Serv.; Michael E. DeBakey, M.D., Cons., VAH, Chm. and Prof. Dept. Surg., Baylor Univ.; Bela Halpert, M.D., Ch. Lab. Serv.; Houston, Tex. (10951)

3957. Experimental Production of Coronary Atherosclerosis in the Dog.

George L. Jordan, Jr., M.D., Ch. Surg. Serv.; John R. Norman, M.D., Resident Med.; Bela Halpert, M.D., Ch. Path. Serv.; Houston, Tex. (10952)

3958. Evaluation of Iodine 131 Therapy in Cardiac Disease and Pulmonary Emphysema.

Hollis G. Boren, M.D., Ch. Pulm. Func. Lab.; W. Morse Hicks, Jr., M.D., Asst. Ch. Med. Serv.; Houston, Tex. (10961)

3959. Chronic Multiple Hemorrhagic Hereditary Telangiectasia.

Eugene L. Walsh, M.D., Ch. Med. Serv.; Huntington, W. Va. (4819)

3960. Incidence of Gastric Ulcer and Cardiac Failure.

E. L. Walsh, M.D., Ch. Med. Serv.; M. M. Klein, M.D., Ch. Radiol. Serv.; Huntington, W. Va. (4825)

3961. Tortuosity and Kinking of the Thoracic Aorta (Pseudocoarctation) in Elderly Patients Simulating Mediastinal Tumor.

Michael M. Klein, M.D., Ch. Radiol. Serv.; Eugene L. Walsh, M.D., Ch. Med. Serv.; Huntington, W. Va. (10872)

3962. Dexedrine as a Cause of Elevated Blood Cholesterol.

Florence K. Hoback, M.D., Ward Phys.; Eugene L. Walsh, M.D., Ch. Med. Serv.; Huntington, W. Va. (10873)

3963. Prognostic Significance of Transaminase Determinations in Myocardial Infarction.

D. Sheffer Clark, M.D., Ward Phys.; Huntington, W. Va. (10874)

3964. The Study of Cor Pulmonale Occurring in Pulmonary Emphysema.

D. Sheffer Clark, M.D., Ward Phys.; Huntington, W. Va. (10875)

3965. Simultaneous Lead (Three) Electrocardiographic Studies of Patients With Pulmonary Insufficiency and Cor Pulmonale.

Roy H. Behnke, M.D., Ch. Med. Serv.; Pasquale D. Genovese, M.D., Asst. Ch. Med. Serv.; Indianapolis, Ind. (4764)

3966. Myocardial Contractility in Heart Failure.

Leo R. Radigan, M.D., Ch. Surg. Serv.; Indianapolis, Ind. (4779)

3967. Experimental Production of Aortic Stenosis.

Leo R. Radigan, M.D., Ch. Surg. Serv.; Indianapolis, Ind. (4780)

3968. Pulmonary Angiography in Atelectatic Lungs.

Leo R. Radigan, M.D., Ch. Surg. Serv.; Indianapolis, Ind. (10894)

3969. The Effect of Estrogen Therapy on the Survival of Patients With Arteriosclerosis.

Mark L. Armstrong, M.D., Phys., Med. Serv., VAH; William E. Connor, M.D., Fellow, Amer. Heart Assoc., State Univ. Iowa Coll. Med.; William M. Kirkendall, M.D., Ch. Med. Serv., VAH; Iowa City, Iowa. (4833)

3970. The Renal Threshold of Hemoglobin in Patients With Liver Disease, Hypertension and Wilson's Disease.

Mark L. Armstrong, M.D., Phys., Med. Serv.; Iowa City, Iowa. (4834)

3971. The Relation of Body Fat to Age and Occurrence of Myocardial Infarction.

Richard E. Peterson, M.D., Dir. RI Research Unit; James J. O'Toole, Ph. D., Biochem. RI Research Unit; Eugene V. Weiner, B.A., Asst. Dir. RI Research Unit; Iowa City, Iowa. (4844)

3972. The Effect of Camphidonium on Renal Hemodynamics and Cardiac Output.

Mark L. Armstrong, M.D., Phys., Med. Serv.; E. D. Thielen, M.D., Staff Phys., Med., State Univ. Iowa; Iowa City, Iowa. (4852)

3973. A Study of Daily Subcutaneous Heparin in the Treatment of Atherosclerosis.

M. L. Armstrong, M.D., Ch. Arteriosclerosis Clin.; Maurice W. Van Allen, M.D., Ch. Neur. Sect.; Walter M. Kirkendall, M.D., Cons., VAH, Dir. Cardiovascular Research Laboratories, Dept. Med., State Univ. of Iowa Coll. Med.; Iowa City, Iowa. (4853)

3974. Arterial Grafting.

Edgar S. Brintnall, M.D., Ch. Surg. Serv.; Iowa City, Iowa. (4857)

3975. Radiopaque Study of Directions of Blood Flow in Carotid System After Common Carotid Artery Occlusion.

Edgar S. Brintnall, M.D., Ch. Surg. Serv.; Iowa City, Iowa. (4859)

3976. Study of Therapeutic Arteriovenous Fistulas.

Richard L. Lawton, M.D., Surg.; Edgar S. Brintnall, M.D., Ch. Dept. Surg.; Iowa City, Iowa. (4863)

3977. Preparation and Use of Intimectomized Arterial Segments.

Frederick D. Staab, M.D., Asst. Ch. Surg. Serv.; Edgar S. Brintnall, M.D., Ch. Surg. Serv.; Iowa City, Iowa. (4865)

3978. Perfection of Method of Cardiac Output Determination Using I^{131} Labeled Albumin.

David C. Funk, M.D., Clin. Invest.; Mark L. Armstrong, M.D., Phys.; Richard E. Peterson, M.D., Dir. RI Research Unit; Robert F. Cech, M.D., Phys., Med.; Iowa City, Iowa. (4894)

3979. The Relation of Blood Lipid Changes to Atherosclerosis.

Mark L. Armstrong, M.D., Phys. Med. Serv., VAH; William E. Connor, M.D., Fellow, Am. Heart Assoc., State Univ. of Iowa Coll. of Med.; Robert A. Melville, Ph. D., Ch. Biochem., VAH; Iowa City, Iowa. (8552)

3980. Evaluation of a New Antihypertensive Drug, SU-5879.

Mark L. Armstrong, M.D., Ch. Hypertensive Clinic; Walter M. Kirkendall, M.D., Cons., VAH, Dir. Cardiovasc. Research Lab., State Univ. of Iowa Coll. of Med.; Iowa City, Iowa. (8553)

3981. Effect of a New Hypotensive Steroid, 17 Alpha-propyl-4, 5 beta-dihydro-19-nortestosterone on the Blood Pressure of Patients With Essential Hypertension.

Mark L. Armstrong, M.D., Phys. Med. Serv.; Walter M. Kirkendall, M.D., Cons., VAH, Dir. Cardiovasc. Research Lab., Dept. of Med., State Univ. of Iowa Coll. of Med.; Iowa City, Iowa. (8554)

3982. Relationship of Total Circulating Red Cell Mass to Cardiac Output and Cardiac Work in Cirrhosis.

David C. Funk, M.D., Clin. Invest.; Mark L. Armstrong, M.D., Staff Phys.; Richard E. Peterson, M.D., Dir. RI Research Unit; Robert F. Cech, M.D., Phys. Med.; Iowa City, Iowa. (9579)

3983. Induction of Changes in Blood Fats by Changes in Diet.

Mark L. Armstrong, M.D., Ch., Arteriosclerosis Clinic, VAH; William E. Connor, M.D., Fellow, American Heart Assoc., State Univ. of Iowa Coll. of Med.; Robert S. Melville, Ph. D., Ch. Biochem., Lab. Serv., VAH; Iowa City, Iowa. (9587)

3984. The Effect of Dietary Cholesterol Upon Serum Lipids.

Richard T. Smith, M.D., Staff Phys.; Mark L. Armstrong, M.D., Ch. Arteriosclerosis Clin., VAH; William E. Connor, M.D., Fellow, American Heart Assoc., State Univ. of Iowa Coll. of Med.; Iowa City, Iowa. (9588)

3985. Coronary Artery Grafting: An Experimental Study.

William R. Fain, M.D., Asst. Ch. Sec. Orth.; Jasper L. McPhail, M.D., Resident, Surg. Serv.; Jackson, Miss. (10913)

3986. Cardiectomy, Total, and Replacement of the Heart: An Experimental Study.

William R. Fain, M.D., Asst. Ch. Sec. Orth.; Jasper L. McPhail, M.D., Resident, Surg. Serv.; Jackson, Miss. (10914)

3987. Study of Venous Pressure and Classification of Configuration of Peripheral Venous Pulse in Experimental Pulmonary Embolization.

George Vryonis, M.D., Phys., Med. Serv.; J. Harold Conn, M.D., Ch. Surg. Serv.; William R. Fain, M.D., Asst. Ch. Dept. Orth.; Jackson, Miss. (10915)

3988. Studies on Airway Resistance as Measured by the Body Plethysmograph.

Charles E. Andrews, M.D., Ch. Med. Serv.; William E. Ruth, M.D., Clin. Invest., VAH; Kurt R. Reissmann, M.D., Assoc. Prof. Med., Univ. of Kansas Med. Cent.; Kansas City, Mo. (4950)

3989. Evaluation of the Effect of Magnesium Excess or Deficiency in the Production of Cardiac Arrhythmias.

Lilia M. Rodriquez, M.D., Ch. Card. Sec.; Yong W. Kim, M.D., Resident Med.; Kans City, Mo. (4957)

3990. Gastrodialysis With a Semi-Permeable Membrane Balloon.

Paul R. Schloerb, M.D., Staff Surg.; Marie H. Carr, M.A., Biochem.; Kansas City, Mo. (4960)

3991. The Fabrication of Gastrodialysis Semi-Permeable Membrane Balloon.

Paul R. Schloerb, M.D., Staff Surg.; Marie H. Carr, M.A., Biochem.; Kansas City, Mo. (4961)

3992. The Effects of Hydrochloric Acid Induced Acidosis and Sodium Hydroxide Induced Alkalosis on Potassium and Nitrogen Balance in Dogs.

Paul R. Schloerb, M.D., Staff Surg.; Marie H. Carr, M.A., Biochem.; Mark D. Ost, Med. Stud.; Kansas City, Mo. (4962)

3993. Studies on the Malic Acid Oxidizing System of Micrococcus Lysodeikticus.

David V. Cohn, Ph. D., Prin. Scien. RI and Research Lab.; Kansas City, Mo. (4984)

3994. Intestinal Perfusion in Renal Insufficiency.

Paul R. Schloerb, M.D., Surg.; Kansas City, Mo. (9615).

3995. A Study of the Transport of Tritiated, Deuterated, and Normal Water Against an Osmotic Gradient in a Biological System.

Eugene J. Towbin, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Little Rock, Ark. (5080)

3996. A Microscopic Study of the Localization of Tritiated Digoxin in Mammalian Tissues.

Eugene J. Towbin, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; James E. Doherty, M.D., Ch. Card. Sec.; Little Rock, Ark. (5081)

3997. The Study of Human Cholesterol Metabolism.

James E. Doherty, M.D., Ch. Card. Sec.; William H. Perkins, M.D., Ch. RI Serv.; Eugene J. Towbin, M.D., Asst. Dir. Prof. Serv. for Research; Little Rock, Ark. (5088)

3998. Determination of the Rate of Diffusion of Tritiated Water Across a Membrane.

Willlam H. Perkins, M.D., Ch. RI Serv.; Little Rock, Ark. (5095)

3999. The Feasibility of Using Tritium-Labeled Digoxin To Study Digoxin Metabolism.

James E. Doherty, M.D., Ch. Card. Sec.; William H. Perkins, M.D., Ch. RI Serv.; Little Rock, Ark. (5096)

4000. Demerol Metabolism in Dogs Who Have Undergone Cardiac Surgery.

Masauki Hara, M.D., Prof. Surg., Univ. Arkansas Med. Center, William H. Perkins, M.D., Ch. RI Serv., VAH; Little Rock, Ark. (8831)

4001. An Attempt To Prepare Isotopically Labelled Vasopressin.

Eugene J. Towbin, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Little Rock, Ark. (10998)

4002. The Use of Radioactive Tagged Albumin in the Study of Cerebral Blood Flow in the Dog Following Experimental Vascular Surgery.

Eugene J. Towbin, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Little Rock, Ark. (10999)

4003. Stress and Fat Saturation in Atherosclerosis.

Kathryn I. Graupner, M.D., Phys. Med. Serv.; Oddist D. Murphree, Ph. D., Prin. Scient. NP Research; Thomas T. Frost, Ch. Path.; Little Rock (No. Little Rock Div.), Ark. (10177)

4004. Creation and Correction of Experimental Mitral Valvular Disease.

J. A. Weinberg, M.D., Ch. Surg. Serv.; A. T. Ferguson, M.D., Phys. Surg. Serv.; H. J. Movius, M.D., Cons.; C. W. McLenathen, M.D., Phys. Surg. Serv.; Long Beach, Calif. (5191)

4005. Cholesterol Levels of Patients Undergoing Stress of Surgery.

Frederick Kellogg, M.D., Cons. Card.; Joseph R. Goodman, Ph. D., Biochem.; Robert E. Liechti, M.D., Resident Surg. Serv.; Long Beach, Calif. (8835)

4006. The Mechanism of Shock Following Myocardial Infarction.

C. M. Agress, M.D., Attend. Spec. Intern. Med., VAC, Assoc. Clin. Prof. Med., Univ. of California at Los Angeles Med. Cen.; H. F. Glassner, B.A., Graduate Research Phys., Los Angeles County Heart Assn.; M. J. Binder, M.D., Assoc. Ch. Card., VAC; J. Fields, M.D., Attend. Spec. Thoracic Surg., VAC, Research Card., Univ. of California at Los Angeles-Med. Cen.; Los Angeles, Calif. (5597)

4007. Competitive Inhibition of Dopa Decarboxylase *In Vivo*.

William C. Clark, Ph. D., Sect. Ch. Phys.-Pharm., VAC; William Drell, Ph. D., Asst. Research Phys. Chem., Univ. of California at Los Angeles Med. Cen.; Los Angeles, Calif. (5606)

4008. Renal Studies in Congestive Heart Failure.

M. H. Maxwell, M.D., Attend. Spec., VAC, Assoc. Clin. Prof. Med., Univ. of California at Los Angeles Med. Cen.; S. H. Bassett, M.D., Asst. Dir. Prof. Serv. for Research, VAC; Samuel I. Roth, M.D., Clin. Instr. Med., Univ. of California at Los Angeles Med. Cen.; Charles R. Kleeman, M.D., Ch. Metab. Sect., VAC; Los Angeles, Calif. (5616)

4009. Electrocardiographic and Vectrocardiographic Studies.

Morton L. Pearce, M.D., Ch. Card. Sect.; Leonard P. Haber, M.D., Resident Card.; Los Angeles, Calif. (5617)

4010. Biosynthesis of Histamine and Histidine Decarboxylase and its Competitive Inhibition.

W. J. Hartman, Ph. D., Asst. Res. Phys. Chem., Univ. of California at Los Angeles Med. Cen.; W. G. Clark, Ph. D., Sect. Ch. Phys.-Pharm., VAC; Los Angeles, Calif. (5620)

4011. Use of Peri-Dural Block in Severe Coronary Shock.

C. M. Agress, M.D., Attend. Spec. Inter. Med., VAC, Assoc. Clin. Prof. Med., Univ. of California at Los Angeles, Med. Cent.; M. J. Binder, M.D., Assoc. Ch. Card., VAC; J. Fields, M.D., Attend. Spec. Thoracic Surg., VAC, Research Card., Univ. of California at Los Angeles Med. Cent.; Los Angeles, Calif. (5638)

4012. Histochemical Studies of the Effects of the Purified Individual and Complex Antigenic Substances on Host Tissue and Parasite in Coccidioidomycosis.

Abraham M. Breslau, M.A., Hist.; Los Angeles, Calif. (5648)

4013. The Electrical Field Surrounding the Isolated Heart.

Morton L. Pearce, M.D., Ch. Card. Sec.; Los Angeles, Calif. (5653)

4014. An Investigation of Various Colorimetric Techniques for the Quantitative Determination of Transaminase.

George R. Kingsley, M.S., Ch. Biochem.; Roscoe R. Schaffert, A.B., Biochem.; Los Angeles, Calif. (5666)

4015. Coronary Atherosclerosis.

Arthur U. Rivin, M.D., Attend. Spec. Med., VAC, Clin. Instr. Med., Univ. of California at Los Angeles, Med. Cent.; Herbert K. Wong, M.D., Resident Med., VAC; Ole A. Schjeide, Ph. D., Asst. Research Biol.; Los Angeles, Calif. (5668)

4016. The Measurement of the Functional Status of the Human Heart by Frequency Spectrum Analysis of its Vibrational Energy.

Clarence M. Agress, M.D., Attend. Spec. Intern. Med., VAC, Assoc. Clin. Prof. Med., Univ. of California at Los Angeles Med. Cent.; Louis Fields, E.E., Instrument Cons., Univ. of California at Los Angeles Med. Cent.; Morris Wilburne, M.D., Attend. Spec. Research, VAC, Clin. Instr. Med., Univ. of Southern California; Martin D. Shickman, M.D., Clin. Asst. Neuromed., VAC; Stanley Wegner, Research Phy., Univ. of California at Los Angeles Med. Cent.; Maxwell J. Binder, M.D., Assoc. Ch. Card., VAC; Los Angeles, Calif. (5669)

4017. Mechanism of Sympathin Formation in Adrenergic Nerves and Various Tissues of Animals.

William Drell, Ph. D., Asst. Research Phy. Chem., Univ. of California at Los Angeles Med. Cent.; William G. Clark, Ph. D., Sect. Ch. Phy.-Pharm., VAC; Los Angeles, Calif. (5670)

4018. *Studies on Unilateral Renal Hypertension.*

Morton H. Maxwell, M.D., Attend. Spec. Med., VAC, Assoc. Clin. Prof. Med., Univ. of California at Los Angeles Med. Cent.; Chester C. Winter, M.D., Attend. Surg., VAC, Asst. Prof. Surg., Univ. of California at Los Angeles Med. Cent.; Charles R. Kleeman, M.D., Ch. Metab. Sect., VAC; Robert E. Rockney, M.D., Clin. Instr. Med., Univ. of California at Los Angeles Med. Cent.; Los Angeles, Calif. (5686)

4019. Therapy for Hypertension.

Morley J. Kert, M.D., Attend. Spec. Med., VAC, Assoc. Clin. Prof. Med., Univ. of California at Los Angeles Med. Cent.; Melvin Avedon, M.D., Cancer Chemotherapy, VAC; Martin D. Shickman, M.D., Clin. Asst. Neuromed.; Richard H. Mailman, M.D., Clin. Asst.; Robert A. Nordyke, M.D., Asst. Ch. Clin. Sect. RI Serv.; Los Angeles, Calif. (5697)

4020. Visceral Manifestations of Rheumatoid Disease: Correlative Study.

Irene O. Gleason, M.D., VAC; Leo Kaplan, M.D., Attend. Path., VAC, Ch. Path., Mt. Siani Hosp.; Los Angeles, Calif. (5700)

4021. Clinical Evaluation of Antihypertensive Drugs.

Morley J. Kert, M.D., Attend. Spec. Med., VAC; Melvin Avedon, M.D., Cancer Chemotherapy, VAC; Samuel I. Roth, M.D., Clin. Asst.; Martin D. Shickman, M.D., Clin. Asst. Neuromed.; Richard H. Mailman, M.D., Clin. Asst.; Los Angeles, Calif. (5710)

4022. Molecular Nature of Cardiac Automatism.

W. G. Clark, Ph. D., Sect. Ch. Phy.-Pharm., VAC; M. W. Seraydarian, Ph. D., Estab. Invest., Los Angeles County Heart Assoc.; Los Angeles, Calif. (5711)

4023. Methylation and Cardiovascular Disease.

D. Masuoka, Ph. D., Asst. Research Pharm., Univ. of California at Los Angeles Med. Cent.; W. G. Clark, Ph. D., Sect. Ch. Phy.-Pharm., VAC; Los Angeles, Calif. (5714)

4024. Normetanephrine.

William G. Clark, Ph. D., Sect. Ch. Phy.-Pharm., VAC; James Barsky, Ph. D., NIH Ment. Health Tr., Univ. of California at Los Angeles Med. Cent.; Los Angeles, Calif. (5715)

4025. Stress Studies in Atherosclerosis.

E. J. Kollar, M.D., Sect. Ch. Psychosom. Med.; J. D. Buckley, M.D., Resid. Psychosom. Med.; N. Rose, Ph. D., Ch. Psychol. Serv.; Los Angeles, Calif. (5716)

4026. The Study of Use of Rigid Plastic Tubes for the Replacement of Segments of the Thoracic Aorta.

J. Fields, M.D., Attend. Spec. Thoracic Surg., VAC, Research Card., Univ. of California at Los Angeles Med. Center; F. X. Byron, M.D., Ch. Thoracic Surg., VAC; A. H. Foster, M.D., Fellow, San Diego Heart Assoc.; Los Angeles, Calif. (5742)

4027. Replacement of Diseased Aortic Valve by a Plastic Valve Prosthesis.

J. Fields, M.D., Attend. Spec. Thoracic Surg., VAC, Research Card., Univ. of California at Los Angeles Med. Center; F. X. Bryon, M.D., Ch. Thoracic Surg., VAC; A. H. Foster, M.D., Fellow San Diego Heart Assoc.; Los Angeles, Calif. (5743)

4028. Criteria for the Surgical Treatment of Abdominal Aortic Aneurysms.

Theodore Shohl, M.D., Ch. Phys.; Kenneth Cruze, M.D., Resid. Surg; Gage B. Pifer, M.D., Senior Resid. Surg.; Los Angeles, Calif. (5774)

4029. Studies of the Metabolism of Arterial Tissue With Relation to Atherosclerosis.

Seymour Dayton, M.D., Clin. Invest.; Los Angeles, Calif. (5830)

4030. Studies on the Immediate Precursors of Noradrenaline.

William Drell, Ph. D., Asst. Research Phy. Chem., Univ. of California at Los Angeles Med. Center; William G. Clark, Ph. D., Sect. Ch. Phy.-Pharm., VAC; Los Angeles, Calif. (5851)

4031. Hemodynamic Studies.

Morton L. Pearce, M.D., Ch. Card. Sect.; Harold Mills, M.D., Attend Phys., VAC, Asst. Clin. Prof. Med., Univ. of California at Los Angeles Med. Center; Lailee B. Tecimer, M.D., Resident Med. Card.; Los Angeles, Calif. (5856)

4032. Pathogenesis of Atherosclerosis.

P. H. Jordan, Jr., M.D., Asst. Ch. Surg., VAC; D. B. Zilversmit, Ph. D., Prof. Phy., Univ. of Tennessee; Los Angeles, Calif. (5869)

4033. Studies on Influence on Ethanolamine Upon Serum Lipid Concentrations.

Seymour Dayton, M.D., Clin. Invest.; Los Angeles, Calif. (8430)

4034. Studies of Lipid Metabolism in Humans.

Seymour Dayton, M.D., Clin. Invest; Los Angeles, Calif. (8457)

4035. Hemodynamic Changes in Clinical Coronary Shock.

M. J. Binder, M.D., Assoc. Ch. Card.; Los Angeles, Calif. (8845)

4036. The Use of Electronic Computers in Medical Research and Bacterial Endocarditis. An Analysis of 85 Cases by Computer Techniques.

Lucien B. Guze, M.D., Clin. Invest., VAC; Morton L. Pearce, M.D., Ch. Card Sec.; Leonard W. Staugas, Ph. D., Systems Develop. Corp., Santa Monica; C. J. Roach, Systems Develop. Corp., Santa Monica; Los Angeles, Calif. (9878)

4037. Determination of Cardiac Output in Humans by Means of Direct Measurement, Using RISA.

F. K. Bauer, M.D., Vol Attend. Spec. RI; W. H. Blahd, M.D., Ch. RI Serv.; R. A. Nordyke, M.D., Asst. Ch. Clin. Sec., RI Serv.; Los Angeles, Calif. (9886)

4038. Study of Venous Thrombosis Pulmonary Embolism.

Wiley F. Barker, M.D., Attend. Spec., Surg., VAC, Assoc. Prof. Surg., UCLA-Med. Cent.; Robert B. Crum, M.D., Sr. Resident, Surg., VAC.; Los Angeles, Calif. (9887)

4039. A Study of Surgical Revascularization of Myocardium Damaged by Artherosclerotic Coronary Artery Disease and the Control of Cardiac Irregularities During Heart Surgery.

Francis X. Byron, M.D., Ch. Thoracic Surg., VAC; Josh Fields. M.D., Attend. Spec. Thoracic Surg., VAC, Research Card., UCLA-Med. Cent.; Los Angeles, Calif. (9888)

4040. Studies in Essential Hypertension.

Morton H. Maxwell, M.D., Attend. Spec. Med., VAC, Assoc. Clin. Prof. Med., UCLA-Med. Cent.; Samuel I. Roth, M.D., Clin. Instr. Med., UCLA-Med. Cent.; Charles R. Kleeman, M.D., Ch. Metabol. Sec., VAC; Los Angeles, Calif. (9889)

4041. Comparison of Prosthetic Materials for Aortic Grafts in Dogs.

Joseph E. Hamilton, M.D., Ch. Surg. Serv.; Phil J. Harbrecht, M.D., Asst. Ch., Surg. Serv.; Clarence E. Claugus, M.D., Asst. Ch. Surg. Serv.; Louisville, Ky. (5443)

4042. Comparative Procedures for Cardiac Revascularization in the Dog.

Joseph E. Hamilton, M.D., Ch. Surg. Serv.; Phil J. Harbrecht, M.D., Asst. Ch. Surg. Serv.; Louisville, Ky. (5444)

4043. Surgery of Portal Hypertension.

Joseph E. Hamilton, M.D., Ch. Surg. Serv.; Louisville, Ky. (5447)

4044. Direct Epicardial Potentials in Normal Hearts.

Richard H. Wasserburger, M.D., Ch. Card. Sect., Asst. Ch. Med. and TB Serv; B. Jack Longley, M.D., Asst. Ch. Surg. Serv.; John T. Mendenhall, M.D., Ch. Surg. Serv., VAH; Donald E. Koepke, M.D., Fellow Surg.,, Univ. of Wisconsin; J. T. King, M.D., Resident Fellow Med., Univ. of Wisconsin; Madison, Wis. (5528)

4045. Complete and Incomplete Left Bundle Branch Blocks—Another Electrocardiographic Pitfall.

Richard H. Wasserburger, M.D., Ch. Cardiovasc. Sec., Asst. Ch. Med. and TB Serv., VAH; Douglas H. White, Jr., M.D., Instr. of Med., Univ. of Wisconsin; Joseph R. Kelly, M.D., Resident, Med., VAH; Elmer R. Lindsay, M.D., Resident, Med.; Madison, Wis. (5530)

4046. The Electrocardiographic Pentalogy of Pulmonary Emphysema.

Richard H. Wasserburger, M.D., Ch. Card. Sec., Asst. Ch. Med. and TB Serv., VAH; John H. Juhl, M.D., Cons., Radiol. Serv., VAH, and Assoc. Prof. Radiol., Univ. of Wisconsin; Carolyn Janet Lloyd, Tech., VAH; Howard K. Rasmussen, Ch. Tech., Pulm. Func. Lab.; Joseph R. Kelly, M.D., Resident, Med.; Helene Bauer, Tech.; Madison, Wis. (5531)

4047. The Origin and Significance of rsR′ Patterns in Right Ventricular Preponderance.

Richard H. Wasserburger, M.D., Ch. Cardiovasc. Sec.; William P. Young, M.D., Thoracic Surg. Sec., VAH; Karl L. Siebecker, M.D., Assoc. Prof. Anes., Univ. of Wisconsin; J. T. King, M.D., Resident Fellow Med., Univ. of Wisconsin; Madison, Wis. (5532)

4048. Electrocardiographic Analysis in Normal Infants and Children.

Richard H. Wasserburger, M.D., Ch. Cardiovasc. Sec., VAH; J. F. Brown, M.D., Instr. Med., Univ. of Wisconsin; Charles Behrens, M.D., Resident, Med., VAH; Madison, Wis. (5533)

4049. Fibroelastosis in Infants and Young Children.

George M. Maxwell, M.D., Asst. Prof. Med., Univ. of Wisconsin; Douglas H. White, Jr., M.D., Instr. Med., Univ. of Wisconsin; Richard H. Wasserburger, M.D., Ch. Cardiovasc. Sec., VAH; Madison, Wis. (5535)

4050. Laboratory Production and Correction of Atrial Septal Defects in Dogs With the Use of Hypothermia, I. Study of Chemical Changes in Blood During Hypothermia, Its Relation to the Prevention of Ventricular Fibrillation and Study of Methods of Correction of Ventricular Fibrillation.

William P. Young, M.D., Surg.; John T. Mendenhall, M.D., Ch. Surg. Serv.; B. Jack Longley, M.D., Asst. Ch. Surg. Serv., VAH; Karl L. Siebecker, M.D., Assoc. Prof. Anes., Univ. of Wisconsin; Madison, Wis. (5576)

4051. Laboratory Study in Dogs With the Use of a Bubble Oxygenator and Blood Pump for Heart-Lung Bypass at Normal Temperature.

William P. Young, M.D., Surg.; John T. Mendenhall, M.D., Ch. Surg. Serv.; B. Jack Longley, M.D., Asst. Ch. Surg. Serv.; Madison, Wis. (5579)

53945—60——30

4052. The Role of the Ballistocardiogram in Prognosis After Myocardial Infarction.

Jerome Ritter, M.D., Dir. Prof. Serv.; Madison, Wis. (10427)

4053. Direct Epicardial Potentials in Right Ventricular Preponderance.

Richard H. Wasserburger, M.D., Ch. Card. Sec., VAH; Karl L. Siebecker, M.D., Assoc. Prof. Anes., Univ. Wisconsin; Joseph Freeman, M.D., Resident Fellow Med., Univ. of Wisconsin; J. T. King, M.D., Resident Fellow Med., Univ. of Wisconsin; William P. Young, M.D., Thoracic Surg. Sec., VAH; Madison, Wis. (10428)

4054. Routine Hyperventilation in Normal Children.

Richard H. Wasserburger, M.D., Ch. Card. Sec., VAH; James K. Wilson, M.D., Resident, Med., Univ. of Wisconsin; Charles Votera, Student, Med., Univ. of Wisconsin; William H. Atwood, Jr., M.D., Resident, Med., Univ. of Wisconsin; Madison, Wis. (10429)

4055. The Absorption of C^{14}-Epi-Cholesterol.

Leon Swell, Ph. D., Ch. Biochem. Gen. Med. Research; Henry Field, Jr., M.D., Ch. Med. Serv., VAC; Carleton R. Treadwell, Ph. D., Cons. VAC, Prof. Biochem., George Washington Univ. Sch. of Med.; Martinsburg, W. Va. (5909)

4056. Cholesterol Metabolism in the Human.

Henry Field, Jr., M.D., Ch. Med. Serv.; Leon Swell, Ph. D., Ch. Biochem. Gen. Med. Research, VAC; Carleton R. Treadwell, Ph. D., Cons. VAC, Prof. of Biochem., George Washington Univ. Sch. of Med.; Percy E. Schools, Jr., M.D., Phys. Med. Serv., VAC; Martinsburg, W. Va. (5910)

4057. Absorption of C^{14}-Cholesterol Esters.

Leon Swell, Ph. D., Ch. Biochem. Gen. Med. Research; Henry Field, Jr., M.D., Ch. Med. Serv., VAC; Carleton R. Treadwell, Ph. D., Cons. VAC, Prof. of Biochem., George Washington Univ. Sch. of Med.; Martinsburg, W. Va. (5911)

4058. Steroid Patterns in Cirrhosis.

Henry Field, Jr., M.D., Ch. Med. Serv.; Robert E. Dailey, M.S., Biochem. Gen. Med. Research; Elizabeth R. Karickhoff, B.S., Biochem. Gen. Med. Research; Leon Swell, Ph. D., Ch. Biochem. Gen. Med. Research; Martinsburg, W. Va. (5913)

4059. Some Urinary Metabolites of Corticosterone.

Henry Field, Jr., M.D., Ch. Med. Serv.; Robert E. Dailey, M.S., Biochem. Gen. Med. Research; Elizabeth R. Karickhoff, B.S., Biochem. Gen. Med. Research; Leon Swell, Ph. D., Ch. Biochem. Gen. Med. Research; Martinsburg, W. Va. (5914)

4060. Corticosterone Metabolites in Edematous States.

Henry Field, Jr., M.D., Ch. Med. Serv.; Robert E. Dailey, M.S., Biochem. Gen. Med. Research; Elizabeth R. Karickhoff, B.S., Biochem. Gen. Med. Research; Leon Swell, Ph. D., Ch. Biochem. Gen. Med. Research; Martinsburg, W. Va. (5915)

4061. Steroid Patterns in Congestive Heart Failure.

Henry Field, Jr., M.D., Ch. Med. Serv.; Robert E. Dailey, M.S., Biochem. Gen. Med. Research; Elizabeth R. Karickhoff, B.S., Biochem. Gen. Med. Research; Leon Swell, Ph. D., Ch. Biochem. Gen. Med. Research; Martinsburg, W. Va. (5916)

4062. Metabolic Fate of C^{14}-Plant Sterols.

Leon Swell, Ph. D., Ch. Biochem. Gen. Med. Research; Henry Field, Jr., M.D., Ch. Med. Serv.; Edgar C. Trout, Jr., B.S., Biochem. Gen. Med. Research, VAC; Carleton R. Treadwell, Ph. D., Cons. VAC, Prof. of Biochem., George Washington Univ. Sch. of Med.; Martinsburg, W. Va. (5918)

4063. The Mechanism of Unsaturated Fatty Acids in Depressing Serum Cholesterol in Humans.

Henry Field, Jr., M.D., Ch. Med. Serv.; Leon Swell, Ph. D., Ch. Biochem. Gen. Med. Research; Percy E. Schools, Jr., M.D., Phys. Med. Serv., VAC; Carleton R. Treadwell, Ph. D., Cons. VAC, Prof. of Biochem., George Washington Univ. Sch. of Med.; Martinsburg, W. Va. (5922)

4064. The Effect of Triiodothyronine on Urinary Excretion of Adrenal Steroids.

Henry Field, Jr., M.D., Ch. Med. Serv.; Robert E. Dailey, M.S., Biochem. Gen. Med. Research; Elizabeth R. Karickhoff, B.S., Biochem. Gen. Med. Research; Leon Swell, Ph. D., Ch. Biochem. Gen. Med. Research; Martinsburg, W. Va. (10817)

4065. The Mechanism of Uptake of Fat and Its Release by Adipose Tissue.

Leon Swell, Ph. D., Ch. Biochem. Gen. Med. Research; Henry Field, Jr., M.D., Ch. Med. Serv., VAC; Carleton R. Treadwell, Ph. D., Cons. VAC, Prof. of Biochem., George Washington Univ. Sch. of Med.; Martinsburg, W. Va. (10818)

4066. The Relationship of Polyunsaturated Fatty Acids to the Transport of Absorbed Cholesterol to the Plasma and Tissues.

Leon Swell, Ph. D., Ch. Biochem. Gen. Med. Research; Henry Field, Jr., M.D., Ch. Med. Serv., VAC; Carleton R. Treadwell, Ph. D., Cons. VAC, Prof. of Biochem., George Washington Univ. Sch. of Med.; Martinsburg, W. Va. (10819)

4067. Studies on the Cholesterol Transport System. Transport of Cholesterol From Mucosa to Lymph.

Leon Swell, Ph. D., Ch. Biochem. Gen. Med. Research; Henry Field, Jr., M.D., Ch. Med. Serv., VAC; Carleton R. Treadwell, Ph. D., Cons. VAC, Prof. of Biochem., George Washington Univ. Sch. of Med.; Martinsburg, W. Va. (10820)

4068. Comparative Aspects of the Fatty Acid Composition of Cholesterol Esters of Tissues in Different Species.

Leon Swell, Ph. D., Ch. Biochem. Gen. Med. Research; Henry Field, Jr., M.D., Ch. Med. Serv., VAC; Carleton R. Treadwell, Ph. D., Cons. VAC, Prof. of Biochem., George Washington Univ. Sch. of Med.; Martinsburg, W. Va. (10821)

4069. The Fatty Acid Composition of the Cholesterol Esters and Other Lipids in Different Human Tissues and Aorta.

Henry Field, Jr., M.D., Ch. Med. Serv.; Leon Swell, Ph. D., Ch. Biochem. Gen. Med. Research, VAC; Carleton R. Treadwell, Ph. D., Cons. VAC, Prof. of Biochem., George Washington Univ. Sch. of Med.; Martinsburg, W. Va. (10822)

4070. Studies on the Intestinal Degradation of Sterols.

Leon Swell, Ph. D., Ch. Biochem. Gen. Med. Research; Henry Field, Jr., M.D., Ch. Med. Serv., VAC; Carleton R. Treadwell, Ph. D., Cons. VAC, Prof. of Biochem., George Washington Univ. Sch. of Med.; Martinsburg, W. Va. (10823)

4071. Freeze-Dry Homologous Artery Grafts.

John J. McCaughan, M.D., Dir. Surg. Research Sect.; Research Lab.; Memphis, Tenn. (6039)

4072. Experimental Study of Polyvinyl Plastic Arterial Grafts in Dogs.

John J. McCaughan, Jr., M.D., Asst. Ch. Surg. Serv.; Memphis, Tenn. (6044)

4073. Experimental Study of Autogenous, Freeze-Dry, Nylon, and Ivalon Vein Grafts in Dogs.

John J. McCaughan, Jr., M.D., Asst. Ch. Surg. Serv.; Memphis, Tenn. (6079)

4074. Successful Arterial Grafts of the Posterior Tibial and Peroneal Arteries in Occlusive Arterial Disease.

John J. McCaughan, Jr., M.D., Asst. Ch. Surg. Serv.; Memphis, Tenn. (6081)

4075. Clinical Results With the Use of Bypass Arterial Grafts in Occlusive Disease of the Femoral Arteries.

John J. McCaughan, Jr., M.D., Asst. Ch. Surg. Serv.; Memphis, Tenn. (6083)

4076. Experimental Study of the Hemodynamics of Arterial Bifurcations.

John J. McCaughan, Jr., M.D., Asst. Ch. Surg. Serv.; Memphis, Tenn. (6084)

4077. Experimental Study of Hypothermia Utilizing Extracorporeal Cooling With a Pump Oxygenator.

John J. McCaughan, Jr., M.D., Asst. Ch. Surg. Serv.; James W. Pate, M.D., Asst. Ch. Thoracic Surg. Sect.; Memphis, Tenn. (6085)

4078. Experimental Study of Total Cardio-Pulmonary Bypass Utilizing a Disc-Type of Pump Oxygenator.

James W. Pate, M.D., Asst. Ch. Thoracic Surg. Sect.; John J. McCaughan, Jr., M.D., Asst. Ch. Surg. Serv.; Memphis, Tenn. (6086)

4079. Experimental Arterial Replacement.

Matthew Presti, M.D., Asst. Ch. Neurosurg. Sect.; Memphis, Tenn. (6087)

4080. Experimental Treatment of Induced Intracerebral Hemorrhage in Dogs With Hypothermia.

Matthew Presti, M.D., Asst. Ch. Neurosurg. Sect.; Memphis, Tenn. (6088)

4081. Protective Action of Hypothermia Following Coronary Artery Occlusion.

Charles D. Scheibert, M.D., Ch. Neurosurg. Sect.; Memphis, Tenn. (6089)

4082. Evaluation of Thyroid Ablation With I–131 in the Treatment of Patients With Cardiovascular Disease.

Charles A. Rosenberg, M.D., Ch. RI Serv.; Memphis, Tenn. (6138)

4083. Comparison of Teflon Intra-Cardiac Patches With Ivalon and Frozen Aortic Homografts.

Roger E. Campbell, M.D., Research Assoc., Cancer Adjuvent Chemotherapy, Surg. Serv.; Wesley F. Jones, M.D., Resident, Surg. Serv.; Henry W. Keisker, M.D., Resident, Surg. Serv.; Memphis, Tenn. (8950)

4084. Hemodynamic Protection by a Hufnagel Valve in Aortic Regurgitation.

Roger E. Campbell, M.D., Research Assoc., Cancer Adjuvent Chemotherapy, Surg. Serv.; Wesley F. Jones, M.D., Resident, Surg. Serv.; Henry W. Keisker, M.D., Resident, Surg. Serv.; Memphis, Tenn. (8951)

4085. Determination of the Feasibility of Giving Ascitic Fluid Intravenously.

Henry W. Keisker, M.D., Resident, Thoracic Surg. Sect.; Memphis, Tenn. (8953)

4086. Selective Arteriography of Abdominal Arteries.

Constantin Cope, M.D., Cancer Chemotherapy Research Assoc.; Memphis, Tenn. (8768)

4087. Attempts To Produce Atherosclerosis in Cockerels by Experimental Diets.

Charles E. Eastridge, M.D., Resident, Surg. Serv.; Memphis, Tenn. (8769)

4088. Combined Use of Extra-Corporeal Circulation and Hypothermia.

Roger E. Campbell, M.D., Cancer Research Assoc. Surg. Serv.; Memphis, Tenn. (10483)

4089. Cross-Over Graft for Unilateral Occlusive Disease of the Ilio-Femoral Arteries.

John J. McCaughan, M.D., Asst. Ch. Surg. Serv.; Sidney F. Kahn, M.D., Resident, Surg. Serv.; Memphis, Tenn. (10484)

4090. Sequestration of Blood Under Conditions of Deep Hypothermia.

John J. McCaughan, Jr., M.D., Asst. Ch. Surg. Serv.; Norman D. Lee, Ph. D., Asst. Ch. RI Serv.; Memphis, Tenn. (10485)

4091. Treatment of Congenital Arteriovenous Fistulae Employing Internal Occlusion of the Shunts With Plastic Spheres.

John J. McCaughan, Jr., M.D., Asst. Ch. Surg. Serv.; Memphis, Tenn. (10486)

4092. Relationship of Ascites to the Degree of Hypertension.

Henry W. Keisker, M.D., Resident, Surg. Serv.; Roger E. Campbell, M.D., Cancer Research Assoc. Surg. Serv.; Memphis, Tenn. (10487)

4093. Fenestration Operation: Evaluation of Procedure.

Wesley F. Jones, M.D., Resident, Surg. Serv.; Henry W. Keisker, M.D., Resident, Surg. Serv.; Roger E. Campbell, M.D., Cancer Research Assoc. Surg. Serv.; Memphis, Tenn. (10488)

4094. A Study of the Internal Carotid Arteries in One Hundred Consecutive Strokes.

John J. McCaughan, M.D., Asst. Ch. Surg. Serv.; Charles D. Scheibert, M.D., Ch. Neurosurg. Sect.; Memphis, Tenn. (10489)

4095. Renal Excretion of Uric Acid in Gout.

Donald F. Gleason, M.D., Ch. Path. Sec.; Richard P. Doe, M.D., Ch. Chem. Sec.; Minneapolis, Minn. (6170)

4096. Evaluations of Current Methods Used in Determinations of Serum Glutamic Oxalacetic Transaminase.

James L. Brown, M.D., Ch. Cardiovasc. Sec.; Jacquelyn C. Nelson, B.S., Research Biochem.; Donna M. Nissen, B.S., Research Med. Tech.; Minneapolis, Minn. (6194)

4097. Study of the Pulsations of the Heart.

Joseph Jorgens, M.D., Ph. D., Ch. Radiol. Serv.; Minneapolis, Minn. (6199)

4098. Establishment of Oscillometric Clinical Norms for Arterial Circulation in the Legs.

Bror S. Troedsson, M.D., Ch. PMR Serv.; Minneapolis, Minn. (6202)

4099. Investigation of Possible Diversionary Valves in Human Arteries.

Samuel M. Reichel, M.D., Asst. Ch. PMR Serv.; Minneapolis, Minn. (6203)

4100. Experimental Pulmonary Arteriosclerosis: Further Study of Circulatory Factors.

Donald J. Ferguson, M.D., Ph. D., Ch. Surg. Serv.; Ernest M. Berkas, M.D., Phys. Surg. Serv.; Richard L. Varco, M.D., Ph. D., Cons. VAH, Prof. Surg. Univ. of Minnesota, Minneapolis, Minn. (6212)

4101. The Effect of a High Fat Diet on the Development of Pulmonary Vascular Lesions in Dogs.

Ernest M. Berkas, M.D., Phys. Surg. Serv.; Donald J. Ferguson, M.D., Ph. D., Ch. Surg. Serv.; Richard L. Varco, M.D., Cons. VAH, Prof. Surg. Univ. Minnesota; Minneapolis, Minn. (6214)

4102. A Technique of Blood Vessel Anastomosis.

William D. Kelly, M.D., Ph. D., Dir. Lab. Exper. Surg.; Donald E. Wohlrabe, M.D., Resident, Surg. Serv.; Minneapolis, Minn. (6215)

4103. Quantitative Histochemical Studies on Arteriosclerotic Pulmonary Blood Vessels Produced Experimentally in Dogs.

Donald J. Ferguson, M.D., Ph. D., Ch. Surg. Serv.; Ernest M. Berkas, M.D., Phys. Surg. Serv.; Minneapolis, Minn. (6216)

4104. The Relationship of Pressure and Flow in the Pulmonary Circulation of Man.

Donald J. Ferguson, M.D., Ph. D., Ch. Surg. Serv.; Ernest M. Berkas, M.D., Phys. Surg. Serv.; Minneapolis, Minn. (6219)

4105. Effect of Temperature on Sensitivity of the Isolated Perfused Rabbit Heart to Potassium.

Edward W. Humphrey, M.D., Ph. D., Phys. Surg. Serv.; John A. Johnson, M.D., Ph. D., Cons. VAH, Assoc. Prof. Phy., Univ. of Minnesota.; Minneapolis, Minn. (6220)

4106. Studies of the Pressor Response to Centripetal Vagal Stimulation.

William D. Kelly, M.D., Ph. D., Dir. Experiment. Surg. Lab.; Minneapolis, Minn. (6225)

4107. Studies on Transplantation of the Mammalian Heart.

William D. Kelly, M.D., Ph. D., Dir. Lab. Exper. Surg.; Minneapolis, Minn. (6227)

4108. The Role of Hypertension in Experimental Atherosclerosis.

Yshio Sako, M.D., Ph. D., Asst. Ch. Surg. Serv.; Minneapolis, Minn. (6228)

4109. A Temporary Reversal of Porosity in Plastic Blood Vessel Prosthesis.

Albert C. Kelly, M.D., Resident, Surg. Serv.; William D. Kelly, M.D., Ph. D., Dir. Experiment. Surg. Lab.; Minneapolis, Minn. (6229)

4110. Creation and Evaluation of an Artificial Heart Valve.

William D. Kelly, M.D., Ph. D., Dir. Lab. Exper. Surg.; Minneapolis, Minn. (6230)

4111. A Study of Blood Flow to the Isolated Brain.

Donald P. Swenson, M.D., Resident, Surg. Serv.; William D. Kelly, M.D., Ph. D., Dir. Lab. Exper. Surg.; Minneapolis, Minn. (6235)

4112. Effect of Atelectasis on Development of Pulmonary Arteriosclerosis.

David E. Raab, M.D., Resident, Surg. Serv.; Riley D. Woodson, M.D., Resident, Surg. Serv.; Donald J. Ferguson, M.D., Ph. D., Ch. Surg. Serv.; Minneapolis, Minn. (6236)

4113. Carotid Artery Thrombosis—A Follow-up Study.

David D. Webster, M.D., Phys., Neur. Sect.; Minneapolis, Minn. (6256)

4114. The Effect of Heparin in Prevention and Treatment of Atherosclerosis in Rats.

Carl S. Alexander, M.D., Clin. Invest.; Leslie Zieve, M.D., Ph. D., Ch. RI Serv.; Minneapolis, Minn. (6315)

4115. Fluorimetric Measurement of Catechol Amines.

James L. Brown, M.D., Ch. Cardiovasc. Sec.; Donna M. Nissen, B.S., Research Med. Tech.; Ruth F. Doyle, B.S., Research Med. Tech.; Minneapolis, Minn. (6331)

4116. The Release of Vaso-Active Materials Following the Administration of Concentrated Solutions in Both Animals and Man.

Raymond C. Read, M.D., Ph. D., Phys., Surg. Serv.; Minneapolis Minn. (8598)

4117. Inferior Vena Cava Occlusion for Treatment of Congestive Heart Failure and Prevention of Pulmonary Emboli.

James P. Lillehei, M.D., Phys., Pulm., Dis. Serv.; William D. Kelly, M.D., Ph. D., Dir. Lab. Experiment. Surg.; Minneapolis, Minn. (8904)

4118. Aminonucleoside Nephrosis in Rats.

Carl S. Alexander, M.D., Clin. Invest.; Minneapolis, Minn. (8905)

4119. Initial and Terminal Spatial ORS Vectors in Cor Pulmonale.

James L. Brown, M.D., Ch. Cardiovasc. Sec.; Ernst Simonson, M.D., Attend. Electrocard.; Minneapolis, Minn. (8907)

4120. Determination of Succinyl Coenzyme A (CoA) Transferase in Serum.

Donald M. Larson, M.D., Asst. Path.; Minneapolis, Minn. (9837)

4121. The Influence of Various Drugs on the Toxic Response to Intra-Arterial Diodrast.

Roger V. Haglund, M.D., Resident Urol. Sec.; William D. Kelly, M.D., Ph. D., Dir. Lab. Exper. Surg.; Minneapolis, Minn. (9838)

4122. Blood Flow Determinations Following Sympathectomy.

Y. Sako, M.D., Ph. D., Asst. Ch., Surg. Serv.; William C. Woyda, M.D., Resident, Surg. Serv.; Minneapolis, Minn. (9839)

4123. Oscillometric Arterial Circulatory Norms for the Arterial Circulation in the Thighs.

Bror S. Troedsson, M.D., Ch. PMR. Serv.; Minneapolis, Minn. (9840)

4124. Cardiopulmonary Status in Acquired Valvular Heart Disease.

James L. Brown, M.D., Ch. Cardiovasc. Sec.; Arnold Adicoff, M.D., Ch. Adm. Sec.; Donna M. Nissen, B.S., Research Med. Tech.; Minneapolis, Minn. (9841)

4125. Profound Hypothermia by Perfusion.

William D. Kelly, M.D., Ph., D., Dir. Lab. Exper. Surg.; Neil M. Trotman, M.D., Resident, Surg. Serv.; Minneapolis, Minn. (9842)

4126. Ventricular Action.

Stanley L. Chow, M.D., Resident, Radiol. Serv.; Minneapolis, Minn. (9843)

4127. Development of New Radiologic Instrument: IV. Ventriculograph.

Joseph Jorgens, M.D., Ph. D., Ch. Radiol. Serv.; Douglas A. Kohl, B.E.E., Research Attend.; Minneapolis, Minn. (9844)

4128. Ventricular Systole in Dogs Below 10° C.

Frank Gollan, M.D., Asst. Dir. Prof. Serv. for Research; Raymond M. Jones, Super. Research Tech.; Nashville, Tenn. (5345)

4129. Restenosis of the Mitral Valve: A Hemodynamic Study.

Joseph M. Merrill, M.D., Clin. Invest.; Walter G. Gobbel, Jr., M.D., Ch. Surg. Serv.; Nashville, Tenn. (5388)

4130. Evaluation of the Oral Administration of Nicotinic Acid to Patients with Hypercholesterolemia.

Joseph M. Merrill, M.D., Clin. Invest.; Richard France, M.D., Ch. Med. Serv.; Nashville, Tenn. (5389)

4131. Studies on the Effect of Pyridoxine Deficiency on the Rate of Cholesterol Synthesis in Male Rats.

Joseph M. Merrill, M.D., Clin. Invest.; Nashville, Tenn. (5393)

4132. Alteration of Cholesterol Synthesis with Nicotinic Acid.

Joseph M. Merrill, M.D., Clin. Invest.; Nashville, Tenn. (5395)

4133. The Effect of Feeding 10% Linoleic Acid on the Excretion of Bile Acids, Sterols Precipitable with Digitonin and Liebermann-Burchard Chromogens.

Joseph M. Merrill, M.D., Clin. Invest.; Nashville, Tenn. (5399)

4134. Effect of Feeding 0.8% Nicotinic Acid on the Excretion of Bile Acids, Sterols Precipitable with Digitonin and Liebermann-Burchard Chromogens in the Rat.

Joseph M. Merrill, M.D., Clin. Invest.; Nashville, Tenn. (5400)

4135. The Effect of Linoleic Acid on the Incorporation of Radiocarbon Into Cholesterol.

Joseph M. Merrill, M.D., Clin. Invest.; Nashville, Tenn. (5401)

4136. Prevention of Experimental Cholesterol Atherosclerosis in Rabbits by an Oral Phenyl-Polysiloxane (DCF 555).

Joseph M. Merrill, M.D., Clin. Invest.; Frank Gollan, M.D., Asst. Dir. Prof. Serv. for Research, VAH; Nashville, Tenn. (5402)

4137. Comparative Effects of Glycocyamine and Nicotinic Acid on Experimental Atherosis in Rabbits.

Joseph M. Merrill, M.D., Clin. Invest.; Jean Burkhalter, Med. Tech. Gen.; Bonnie C. Keith, Med. Tech. Gen.; Walter Early, Biol. RI Serv.; Nashville, Tenn. (9955)

4138. Natural History of Coronary Artery Disease. Biostatistical Analysis of Data from Patients' Charts and Follow-Up Surveys.

C. O. T. Ball, Instr. Biostatistics, Vanderbilt Univ. Sch. Med.; Joseph M. Merrill, M.D., Clin. Invest., VAH; G. R. Meneely, M.D., Cons. RI Serv.; Nashville, Tenn. (9956)

4139. Absorption of Saturated and Unsaturated Radioactive Fats in Patients Suffering From Coronary Disease.

Norman Ende, M.D., Ch. Clin. Lab.; Nashville, Tenn. (9965)

4140. Post-Mortem Survival of Smooth Muscle, Striated Muscle and Cardiac Muscle.

Norman Ende, M.D., Ch. Clin. Lab.; Frank Gollan, M.D., Asst. Dir. Prof. Serv. for Research; Nashville, Tenn. (9966)

4141. Blood Surface Tension and Cholesterol Atherosclerosis.

Frank Gollan, M.D., Asst. Dir. Prof. Serv. for Research; Nashville, Tenn. (9968)

4142. The Effect of Certain Liquid Organopolysiloxanes on Atherosclerosis in Experimental Animals.

Frank Gollan, M.D., Asst. Dir. Prof. Serv. for Research; Nashville, Tenn. (9967)

4143. The Influence of Vessel Occlusion and Sympathectomy on Radiosodium Dispersion Rate and Available Oxygen of Skeletal Muscle.

R. E. Wiederanders, M.D., Surg. Serv.; Frank Gollan, M.D., Asst. Dir. Prof. Serv. for Research; K. L. Classen, M.D., Surg. Serv.; Nashville, Tenn. (9969)

4144. Cumulative Toxic Effect of the Repeat Aortogram.

D. A. Killen, M.D., Surg. Resident; E. M. Lance, M.D., Surg. Resident, VAH; Guy Owens, M.D., Attend., VAH, Asst. Prof. Neurosurg., Vanderbilt Univ. Med. Sch.; Nashville, Tenn. (9970)

4145. A Flow Meter for Extracorporeal Circulation.

Paul O. Anderson, M.D., Med. Serv.; Nashville, Tenn. (9971)

4146. Physical Rehabilitation in Myocardial Infarction.

Harry J. Bugel, M.D., Ch. PMR Serv.; Nashville, Tenn. (9972)

4147. Study of Lower Extremity Amputees, Amputated for Peripheral Vascular Disease.

Harry J. Bugel, M.D., Ch. PMR Serv.; R. I. Carlson, M.D., Ch. Surg. Serv.; Nashville, Tenn. (9973)

4148. Heart-Lung Bypass Operation.

R. L. Kemler, M.D., Attend. Phys. Surg. Serv.; P. W. Fenney, M.D., Ch. Surg. Serv.; A. A. Anderson, M.D., Asst. Ch. Surg. Serv.; P. O. Anderson, M.D., Sect. Ch. Pulm. Dis.; Newington, Conn. (6343)

4149. The Use of Hypothermia in Learning its Technique and Concomitantly in Creating and Closing of Atrial Septal Defects.

R. L. Kemler, M.D., Attend. Phys. Surg. Serv.; Philip W. Fenney, M.D., Ch. Surg. Serv.; Newington, Conn. (6344)

4150. A Study of the Gross Chemical Pathology in Renal Disease.

John N. Bickers, M.D., Resident, Med.; Emanuel H. Bresler, M.D., Asst. Dir. Prof. Serv. for Research, Ch. RI Serv. VAH; Emmanuel Farber, M.D., Assoc. Prof. Path., Tulane; New Orleans, La. (6383)

4151. A Search for the Masked Thyrocardiac.

Leo G. Horan, M.D., Ch. Card. Serv.; New Orleans, La. (6434)

4152. Intrarenal Effect of Mercurials Utilizing Specific Enzyme Staining Procedures.

Emanuel H. Bresler, M.D., Asst. Dir. Prof. Serv. for Research, Ch. RI Serv.; John N. Bickers, M.D., Resident, Med., VAH; Emmanuel Farber, M.D., Assoc. Prof. Path., Tulane, New Orleans, La. (6384)

4153. The Effect of Blood Glucose Levels on Water and Solute Excretion.

Emanuel H. Bresler, M.D., Asst. Dir. Prof. Serv. for Research, Ch. RI Serv.; New Orleans, La. (6385)

4154. A Study of the Physicochemical Properties of Proteins in Proteinuric State.

Emanuel H. Bresler, M.D., Asst. Dir. Prof. Serv., Ch. RI Serv. New Orleans, La. (6386)

4155. Cardiovascular Response to Sudden Opening of A-V Fistula.

Emanuel H. Bresler, M.D., Asst. Dir. Prof. Serv. for Research, Ch. RI Serv., VAH; Joseph H. Trapold, Ph. D., Asst. Prof. Pharm., Louisiana State Univ.; New Orleans, La. (6387)

4156. A Study of the Ventricular Gradient by Differential Comparison of Intracellular Potentials.

Leo G. Horan, M.D., Ch. Card. Serv.; New Orleans, La. (6393)

4157. A Study of Ventricular Hypertrophy With High-Fidelity Electrocardiographic Recording.

Leo G. Horan, M.D., Ch. Card. Serv.; New Orleans, La. (6394)

4158. A Clinical Survey of Cardiac Arrhythmias.

Leo G. Horan, M.D., Ch. Card. Serv.; New Orleans, La. (6395)

4159. Physicochemical Factors Involved in Renal Tubular Reabsorption.

Emanuel H. Bresler, M.D., Asst. Dir. Prof. Serv. for Research, Ch. RI Serv.; New Orleans, La. (6413)

4160. A Study of Urochrome Output.

Emanuel H. Bresler, M.D., Asst. Dir. Prof. Serv. for Research, Ch. RI Serv.; Joe Meyer, Ph. D., Prin. Scien. RI Serv.; New Orleans, La. (6417)

4161. The Effect of Electrolytes on Urinary Concentrating Ability.

Emanuel H. Bresler, M.D., Asst. Dir. Prof. Serv. for Research, Ch. RI Serv.; New Orleans, La. (6418)

4162. Physiologic Changes in Acute Bagasstosis.

Robert P. Cameron, M.D., Clin. Invest.; Howard A. Bucchner, M.D., Ch. Med. Serv.; New Orleans, La. (6423)

4163. Hemodynamic Studies in a Circulatory Schema.

Emanuel H. Bresler, M.D., Asst. Dir. Prof. Serv. for Research, Ch. RI Serv.; Lionel L. Cazenavette, M.A., Asst. Ch. RI Serv.; New Orleans, La. (6450)

4164. A Study of A-V Nodal Conduction in Atrial Fibrillation and the Influence of the Cardiac Drugs Upon the Conduction Pathway.

Leo G. Horan, M.D., Ch. Card. Serv.; New Orleans, La. (11100)

4165. The Spatial Vectorcardiogram and Pathologic Data in Ventricular Hypertrophy.

Leo G. Horan, M.D., Ch. Card. Serv.; Joseph Ziskind, M.D., Ch. Lab. Serv., VAH; George E. Burch, M.D., Prof. Med., Tulane; James A. Cronvich, M.D., Prof. Med., Tulane; New Orleans, La. (11101)

4166. The Renal Response to Sustained Expansion of Extracellular Fluid Volume.

Emanuel H. Bresler, M.D., Asst. Dir. Prof. Serv. for Research, Ch. RI Serv.; Edward B. Ferguson, Jr., M.D., Asst. Ch. Med. Serv.; New Orleans, La. (11102)

4167. Use of Mephentermine in Myocardial Shock.

Leo G. Horan, M.D., Ch. Card. Serv.; Anthony M. Scardino, M.D., Resident, Med.; Bobby J. Hood, M.D., Resident, Med.; New Orleans, La. (11107)

4168. The Renal Response to an Intravenous Sodium Chloride Challenge as an Index of Circulatory Status.

John N. Bickers, M.D., Resident, Med.; Robert L. Andreae, M.D., Resident, Med.; Emanuel H. Bresler, M.D., Asst. Dir. Prof. Serv. for Research, Ch. RI Serv.; New Orleans, La. (11108)

4169. The Cardiac Phonochromatogram.

Leo G. Horan, M.D., Ch. Card. Serv.; New Orleans, La. (11109)

4170. A Correlation of Electrocardiographic Changes and Pulmonary Artery Pressure.

Leo G. Horan, M.D., Ch. Card. Serv.; Robert L. Andreae, M.D., Resident, Med.; New Orleans, La. (11110)

4171. Endocardial Fibrosis Studies on Human Material and Small Animals.

J. James Smith, M.D., Ch. Med. Serv.; Ernest Redfield, M.D., Path.; New York, N.Y. (6485)

4172. Development of Rapid Serial Full-Length Angiography of the Lower Extremity.

Lewis R. Lawrence, M.D., Ch. Radiol. Serv.; New York, N.Y. (6490)

4173. Aspects of Creatine Metabolism in Congestive Heart Failure.

Martin Dolgin, M.D., Ch. Card. Sec.; New York, N.Y. (6494)

4174. Study of the Effect of Triiodothyropropionic Acid on Blood-Cholesterol Levels in Patients With Primary or Secondary Hypercholesteremia.

Harold S. Ballard, M.D., Phys. Med. Serv.; John DiJohn, M.D., Phys. Med. Serv.; New York, N.Y. (6507)

4175. Use of the Mechanical Pump-Oxygenerator for Open Heart Surgery.

Harold Stern, M.D., Ch. Thoracic Surg. Sec.; Earl Risbeck, M.D., Resident Thoracic Surg.; New York, N.Y. (6516)

4176. Potassium and Sodium Exchange in Heart Muscle. I. The Exchange of K^{42} in Frog Ventricle Mitochondria.

S. S. Schreiber, M.D., Attend. Intern., RI Serv., VAH, Clin. Instr. Med., New York Univ. Coll. of Med.; M. Oratz, Ph. D., Asst. Ch. RI Serv., VAH; M. A. Rothschild, M.D., Ch. RI Serv.; New York, N.Y. (6561)

4177. Potassium and Sodium Exchange in Heart Muscle. II. The Exchange of Potassium in the Guinea Pig Heart *In Vitro*.

S. S. Schreiber, M.D., Attend. Internist, RI Serv.; M. Oratz, Ph. D., Asst. Ch. RI Serv.; M. A. Rothschild, M.D., Ch. RI Serv.; New York, N.Y. (11021)

4178. The Ratio of Average Body Hematocrit Value to Peripheral Vessel Hematocrit Value in Thyrotoxicosis.

M. A. Rothschild, M.D., Ch. RI Serv.; M. Oratz, Ph. D., Asst. Ch. RI Serv.; S. S. Schreiber, M.D., Attend. Internist, RI Serv.; New York, N.Y. (11022)

4179. Studies of Pathogenesis of Atherosclerosis: Incorporation of Lipid Precursors into Normal and Atherosclerostic Tissues.

Thomas P. Almy, M.D., Cons. VAH, Dir. Second Cornell Med. Div., Bellevue Hosp.; John T. Farrar, M.D., Ch. GI Sec. VAH; Arthur Berman, M.D., Resident, GI Sec.; New York, N.Y. (11023)

4180. Effect of Drug Diuril.

Paul T. Egidio, M.D.; Eugene Teich, M.D.; Northport, N.Y. (8388)

4181. Spatial Vectorcardiography.

Mervin J. Goldman, M.D., Asst. Ch. Med. Serv.; Francis Y. K. Lau, M.D., Phys. Med. Serv.; Oakland, Calif. (6639)

4182. The Relationship of Serum Magnesium to Blood Lipid Levels in Man.

William O. Smith, M.D., Asst. Ch. RI Serv.; James F. Hammarsten, M.D., Ch. Med. Serv.; Nancy Erbar, Tech.; Oklahoma City, Okla. (6841)

4183. Simplified Intravenous Fat Tolerance Test.

Carl W. Smith, Jr., M.D., Clin. Asst.; Kelly M. West, M.D., Staff Phys.; Philip C. Johnson, M.D., Ch. RI Serv.; Howard D. Guiles, Tech.; Daniel R. Patrick, Tech.; Oklahoma City, Okla. (6855)

4184. Clearance of Intravenous Triglyceride in Patients With Arteriosclerotic Heart Disease.

Philip C. Johnson, M.D., Ch. RI Serv.; Carl W. Smith, Jr., M.D., Clin. Asst.; Howard D. Guiles, Tech.; Daniel R. Patrick, Tech.; Oklahoma City, Okla. (6856)

4185. Lipoprotein Studies During Stress.

James F. Hammarsten, M.D., Ch. Med. Serv.; Stewart G. Wolf, M.D., Cons. Phys.; Oklahoma City, Okla. (6859)

4186. Activation of the Free Wall of the Right Ventricle in Right Bundle Branch Block.

Loyal L. Conrad, M.D., Ch. Cardiovasc. Sect.; T. Edward Cuddy, M.D., Resident Phys.; Oklahoma City, Okla. (6860)

4187. Histologic Changes in Pulmonary Arterial Bed Consequent to Chronic Pulmonary Hypertension Produced by Repeated Unilateral Pulmonary Embolization.

Loyal L. Conrad, M.D., Ch. Cardiovasc. Sec.; T. Edward Cuddy, M.D., Resident Phys.; Oklahoma City, Okla. (6865)

4188. Comparison of the Electrocardiogram From the Ventricular Surface and the Precardial Electrocardiogram in Experimental Right and Left Ventricular Hypertrophy.

Loyal L. Conrad, M.D., Ch. Cardiovasc. Sect.; T. Edward Cuddy, M.D., Resident Phys.; Oklahoma City, Okla. (6866)

4189. Coronary Collateral Circulation Following Pitressin Administration.

Loyal L. Conrad, M.D., Ch. Cardiovasc. Sect.; Robert H. Bayley, M.D., Cons. Intern. Med., VAH, Prof. Med., Oklahoma Univ. Med. Sch.; T. Edward Cuddy, M.D., Resident Phys.; Jean Tucker, B.S., Research Asst.; Elva M. Bruney, B.S., Research Tech.; Oklahoma City, Okla. (6861)

4190. Production of Pulmonary Hypertension in Dogs by the Injection of Autogenous Clots Into One Pulmonary Artery.

William E. Jaques, M.D., Cons. Path., VAH, Prof Path., Oklahoma Univ. Med. Sch.; T. Edward Cuddy, M.D., Resident Phys., VAH; Loyal L. Conrad, M.D., Ch. Cardiovasc. Sect.; Oklahoma City, Okla. (6862)

4191. Sodium Retaining Properties of Coronary Sinus Blood in Congestive Heart Failure.

Loyal L. Conrad, M.D., Ch. Cardiovasc. Sect.; Oklahoma City, Okla. (6864)

4192. A Study of Diuretics in Patients With Chronic Congestive Heart Failure and Edema Due to Other Causes.

William F. Ewing, M.D., Ch. Resident Med.; Mervin L. Clark, M.D., Clin. Asst. Med., VAH; James A. Hagans, M.D., Attend. Intern. Med., VAH, Assist. Prof. Med., Oklahoma Univ. Med. Sch.; Oklahoma City, Okla. (6903)

4193. Studies on Diuretic Agents in Subjects With Normal Hearts and Lungs.

Adrain A. Kryiakopoulos, M.D., Resident Fellow; Mervin L. Clark, M.D., Cons. Phys.; David C. Mock, M.D., Dir. Experimen. Therapeutic Lab.; Oklahoma City, Okla. (6907)

4194. An Investigation of the Action of SKF 4691 on Patients With Hypertension.

Stanley R. McCampbell, M.D., Cons. Phys.; David C. Mock, M.D., Dir. Exp. Therapeutic Lab.; Stewart G. Wolf, M.D., Cons. Phys.; Oklahoma City, Okla. (6911)

4195. To Develop Cardiac Bypass Techniques for Intracardiac Surgery.

Thomas O. Hodges, M.D., Asst. Ch. Surg. Serv.; Carl Krieger, Jr., M.D., Ch. Anes. Sect.; Gordon F. Miller, M.D., Resident Surg.; Oklahoma City, Okla. (6916)

4196. Atherosclerosis.

Thomas O. Hodges, M.D., Asst. Ch. Surg. Serv.; Oklahoma City, Okla. (6923)

4197. The Effect of Protein Free Diet on the Absorption and Excretion of Magnesium[28].

Philip C. Johnson, M.D., Ch. RI Serv., VAH; Leonard P. Eliel, M.D., Dir. Oklahoma Med. Research Found.; William O. Smith, M.D., Asst. Ch. RI Serv., VAH; Oklahoma City, Okla. (6932)

4198. Determination of Coronary Blood Flow by Surface Counting Technique.

Gunnar R. Sevelius, M.D., Clin. Asst.; Philip C. Johnson, M.D., Ch. RI Serv.; David D. Snyder, M.D., Resident Phys.; Gilbert S. Campbell, M.D., Ch. Surg. Serv.; Oklahoma City, Okla. (6954)

4199. Changes in Coronary Blood Flow and Cardiac Output Following Myocardial Infarctions.

Gunnar R. Sevellius, M.D., Clin. Asst.; Philip C. Johnson, M.D., Ch. RI Serv.; Oklahoma City, Okla. (6955)

4200. Determination of Renal Blood Flow by Surface Counting Technique.

Gunnar R. Sevelius, M. D., Clin. Asst.; Philip C. Johnson, M.D., Ch. RI Serv.; Daniel R. Patrick, Tech.; Oklahoma City, Okla. (6956)

4201. Effect of Diabetes and Aging on Carbon[14] Acetate Metabolism in Man.

Allen R. Hennes, M.D., Asst. Ch. Med. Serv.; Tommy W. Redding, Tech.; Vernon H. Belindo, Tech.; Oklahoma City, Okla. (10003)

4202. Effects of Relief of Aortic Obstruction on the Development of Distal Atherosclerosis in Dogs and Humans.

David D. Snyder, M.D., Resident Phys.; Gilbert S. Campbell, M.D., Ch. Surg. Serv.; Oklahoma City, Okla. (10026)

4203. Investigation of Hypotensive Effects of a New Agent, SKF 6890.

Stanley R. McCampbell, M.D., Cons. Phys.; David C. Mock, M.D., Dir. Exper. Therapeutic Lab.; Oklahoma City, Okla. (10027)

4204. Use of Intravenous Urea in Edematous States.

John Kyriacopoulos, M.D., Resident Phys.; William O. Smith, M.D., Asst. Ch. RI Serv.; Oklahoma City, Okla. (10028)

4205. Study on Effectiveness of Anti-coagulants in Myocardial Infarction.

Loyal L. Conrad, M.D., Ch. Cardiovasc. Sect.; Carryl W. Wiggins, M.D., Ch. OP Serv.; Gerald L. Honick, M.D., Resident Phys.; Oklahoma City, Okla. (10029)

4206. The Effect of Coronary Dilators on Coronary Blood Flow and Cardiac Output.

Gunnar R. Sevelius, M.D., Clin. Asst.; Philip C. Johnson, M.D., Ch. RI Serv.; Daniel R. Patrick, Tech.; Stephen W. Thompson, M.D., Resident Phys.; Oklahoma City, Okla. (10030)

4207. Clinical Evaluation of Lipodiatic Agents.

Adrian A. Kyriakopoulos, M.D., Resident Fellow; Oklahoma City, Okla. (10031)

4208. *In Vitro* Plasma Clearing Factor Assay After Intravenous Triglycerides With and Without Intravenous Heparin.

Carl W. Smith, Jr., M.D., Clin. Asst.; Philip C. Johnson, M.D., Ch. RI Serv.; Howard D. Guiles, Tech.; Daniel R. Patrick, Tech.; Oklahoma City, Okla. (10032)

4209. Influence of Blood pH on Cardiovascular Mechanism.

David D. Snyder, M.D., Resident Phys.; Gilbert S. Campbell, M.D., Ch. Surg. Serv.; Oklahoma City, Okla. (10033)

4210. Boundary Effects on Ventricular Accession—Artificial Model and Dogs.

Loyal L. Conrad, M.D., Ch. Cardiovasc. Sect.; T. Edward Cuddy, M.D., Resident Phys.; Oklahoma City, Okla. (10034)

4211. Activation of the Ischemic Ventricle and Acute Peri-infarction Block in Experimental Coronary Occlusion.

Loyal L. Conrad, M.D., Ch. Cardiovasc. Sect.; T. Edward Cuddy, M.D., Resident Phys.; Robert H. Bayley, M.D., Cons. Phys.; Oklahoma City, Okla. (10035)

4212. Activation of Ischemic Ventricle in Man.

Loyal L. Conrad, M.D., Ch. Cardiovasc. Sect.; T. Edward Cuddy, M.D., Resident Phys.; Oklahoma City, Okla. (10036)

4213. The Influence of Septal Defects on Surface Counted Flow Curves Using Flow Model.

Gunnar R. Sevelius, M.D., Clin. Asst.; Philip C. Johnson, M.D., Ch. RI Serv.; Daniel R. Patrick, Tech.; Oklahoma City, Okla. (10037)

4214. Mathematical Analysis of the Downslope of the Cardiac Output Curve.

Gunnar Sevelius, M.D., Clin. Asst.; Philip C. Johnson, M.D., Ch. RI Serv.; Oklahoma City, Okla. (10038)

4215. Investigation of Different Concentrations of Contrast Media in Coronary Arteriography.

Gilbert S. Campbell, M.D., Ch. Surg. Serv.; Samuel M. Glasser, M.D., Ch. Radiol. Serv.; David D. Snyder, M.D., Resident Phys.; Oklahoma City, Okla. (10039)

4216. Open *vs.* Closed Left Atrial Drainage During Cross-Clamping of the Aortic Arch.

David D. Snyder, M.D., Resident Phys., VAH; G. Rainey Williams, M.D., Asst. Prof. Surg., Oklahoma Univ. Med. Sch.; Gilbert S. Campbell, M.D., Ch. Surg. Serv., VAH; Oklahoma City, Okla. (10040)

4217. Determination of Ventricular Volumes by Thermistor Technique.

Loyal L. Conrad, M.D., Ch. Cardiovasc. Sec.; Keith A. Klopfenstein, M.D., Resident Phys.; John M. Kalbfleisch, M.D., Resident Phys.; Robert L. Trendley, Tech.; Oklahoma City, Okla. (10041)

4218. Serum Zinc Levels in Patients With Coronary Heart Disease.

Richard E. Ogborn, M.D., Ch. RI Serv.; Joseph M. Holthaus, M.D., Ch. Med. Serv.; Omaha, Nebr. (10224)

4219. A Study of Blood Pressure, Heart Rate and Cardiac Output During Fasting and Realimentation With Diets High in Carbohydrate or Protein in Normal and Hypertensive Dogs.

Charles M. Wilhelmj, M.D., Cons., VAH, Chm. Dept. Phys., Creighton Univ. Sch. Med.; Richard E. Ogborn, M.D., Ch. RI Serv., VAH; Louis Martin, M.S., Fellow Med., Creighton Univ. Sch. Med.; Omaha, Nebr. (10225)

4220. Study of Incidence and Classical Findings in Various Types of Pericarditis From the Case Records of the Omaha VA Hospital.

Reginald A. MacHaffie, M.D., Phys., Med. Serv., VAH; John R. Walsh, M.D., Dir. Dept. Med., Creighton Univ., Cons., VAH; JoAnn Olsen, B.A., Med. Record Libr., VAH; Omaha, Nebr. (6715)

4221. External *In Vivo* Radioactive Cardiac Output Determinations in Various Cardiac Pathological States.

Richard E. Ogborn, M.D., Ch. RI Serv.; Joseph M. Holthaus, M.D., Ch. Med. Serv.; William Burgin, Jr., B.S., Phys. Scien. Tech.; Omaha, Nebr. (6772)

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4222. Left Heart Catheterization.

Thomas P. Crymes, M.D., Asst. Ch. Cardiovasc. Sec.; Daniel E. Smith, M.D., Asst. Ch. Thoracic Surg. Sec.; Oteen, N.C. (6688)

4223. Cardiac Output.

Thomas P. Crymes, M.D., Asst. Ch. Cardiovasc. Sec.; Oteen, N.C. (6689)

4224. Mitral Insufficiency.

Thomas P. Crymes, M.D., Asst. Ch. Cardiovasc. Sec.; Oteen, N.C. (6690)

4225. Development of Technique for Extracorporeal Circulation.

Timothy Takaro, M.D., Ch. Cardiovasc. Sec.; Thomas P. Crymes, M.D., Asst. Ch. Cardiovasc. Sec.; Oteen, N.C. (6692)

4226. Development of Mechanical Vessel Couples Employing Stapling Techniques.

Timothy Takaro, M.D., Ch. Cardiovasc. Sec.; Oteen, N.C. (6693)

4227. Replacement of Aortic Arch Under Hypothermia Employing Oteen Vessel Couple.

Timothy Takaro, M.D., Ch. Cardiovasc. Sec.; Oteen, N.C. (6695)

4228. Arterial Substitution Grafts Employing the Oteen Vessel Couples.

Timothy Takaro, M.D., Ch. Cardiovasc. Sec.; Oteen, N.C. (6696)

4229. Development of Freeze-Dry Arterial Homografts.

Timothy Takaro, M.D., Ch. Cardiovasc. Sec.; Thomas P. Crymes, M.D., Asst. Ch. Cardiovasc. Sec.; Oteen, N.C. (6697)

4230. Bronchial Disease Patterns as Seen Through a Photo-Bronchoscope.

John E. Rayl, M.D., Asst. Ch. Surg. Serv.; Daniel E. Smith, M.D., Asst. Ch. Thoracic Surg. Sec.; Oteen, N.C. (10211)

4231. The Continuous Recording of Oxygen Tension During Open Heart Surgery.

Thomas P. Crymes, M.D., Asst. Ch. Cardiovasc. Sec.; Daniel E. Smith, M.D., Asst. Ch. Thoracic Surg. Sec.; Oteen, N.C. (10212)

4232. The Development of Techniques in Coronary Arteriography.

Timothy Takaro, M.D., Ch. Cardiovasc. Sec.; Thomas P. Crymes, M.D., Asst. Ch. Cardiovasc. Sec.; John E. Rayl, M.D., Asst. Ch. Surg. Serv.; Daniel E. Smith, M.D., Asst. Ch. Thoracic Surg. Sec.; Oteen, N.C. (10213)

4232. A Study of So-Called Postpartal Heart Disease.

W. R. Meadows, M.D., Outpatient Phys., TB Control Officer; Palo Alto, Calif. (6796)

4233. Continuous Intra-Arterial Blood Pressure Monitor.

J. E. O. Newton, M.D., NIH Fellow; C. C. Brown, Ph. D., Dir. Psychophys. Research; Perry Point, Md. (10559)

4234. Heart Rate Summator.

C. C. Brown, Ph. D., Dir. Psychophy. Research Lab.; J. R. Reus, Ch. Instrument Develop.; S. Weinstein, B.A., Research Fellow; Perry Point, Md. (10584)

4235. The Oxyhemoglobin Dissociation Curve in Sickle Cell Anemia.

Henry P. Close, M.D., Ch. Med. Serv., VAH.; Richard Cathcart, M.D., Cons. Pulm. Phy., VAH., Asst. Prof. Med., Jefferson Med. Coll. and Hosp.; William Farimow, M.D., Fellow in Cardiopulm. Research, Jefferson Med. Coll. and Hosp.; Theodore Rodman, M.D., Staff Phys., VAH; May K. Purcell, Ch. Cardiopulm. Func. Tech., VAH; Philadelphia, Pa. (7107)

4236. Studies for Removal of Calcium With Sodium Versenate.

Melvin Sobel, M.D., Resident Med. Serv.; Bernard H. Pastor, M.D., Ch. Cardiovasc. Sec.; Ralph M. Myerson, M.D., Asst. Ch. Med. Serv.; Philadelphia, Pa. (7116)

4237. Comparison of the Cube, Tetrahedron, and Orthogonal Vectorcardiographic Systems.

Bernard H. Pastor, M.D., Ch. Cardiovasc. Sec.; Theodore Rodman, M.D., Staff Phys. Cardiopulm. Func. Lab.; Philadelphia, Pa. (7117)

4238. Correlation of Vectrocardiography With Electrocardiograms and Clinical Cardiac Findings.

Bernard H. Pastor, M.D., Ch. Cardiovasc. Sec.; Theodore Rodman, M.D., Staff Phys. Cardiopulm. Func. Lab.; Philadelphia, Pa. (7118)

4239. The Incidence of Arrhythmias in Chronic Cor Pulmonale.

Bernard H. Pastor, M.D., Ch. Cardiovasc. Sec.; Leo J. Corazza, M.D., Resident Med. Serv.; Philadelphia, Pa. (7119)

4240. A Comparative Study of Methods for Controlling Anticoagulant Therapy With Prothrombinopenic Drugs.

Theodore Rodman, M.D., Staff Phys. Cardiopulm. Func. Lab.; Bernard H. Pastor, M.D., Ch. Cardiovasc. Sec.; Robert Smith, M.D., Resident Card.; Philadelphia, Pa. (8754)

4241. Depression of Serum Blood Cholesterol Levels and Serum Lipids by the Administration of Benzmalecene.

Bernard H. Pastor, M.D., Ch. Cardiovasc. Sec.; Robert W. Smith, M.D., Resident Card.; Ralph M. Myerson, M.D., Asst. Ch. Med. Serv.; Philadelphia, Pa. (8759)

4242. A Controlled Study of Four Prothrombinopenic Agents.

Theodore Rodman, M.D., Staff Phys. Cardiopulm. Func. Lab.; Robert W. Smith, M.D., Resident in Card.; Bernard H. Pastor, M.D., Ch. Cardiovasc. Sec.; Philadelphia, Pa. (9941)

4243. Clinical Study of Patients With Alveolar Capillary Block.

Henry P. Close, M.D., Ch. Med. Serv.; Theodore Rodman, M.D., Staff Phys. Cardiopulm. Func. Lab.; Philadelphia, Pa. (9942)

4244. Clinical Features of Tumor Involving the Myocardium by Metastasis or Direct Invasion.

Theodore Rodman, M.D., Staff Phys. Cardiopulm. Func. Lab.; Bernard H. Pastor, M.D., Ch. Cardiovasc. Sec.; Philadelphia, Pa. (9943)

4245. Efficacy of Warfarin (Prothromadin) as an Anticoagulant for Clinical Use.

Bernard H. Pastor, M.D., Ch. Cardiovasc. Sect.; Theodore Rodman, M.D., Staff Phys.; Charles Ryan, M.D., Form. Resident, Cardiovasc. Sect.; Werner J. Hollendonner, M.D., Form. Resident, Med. Serv.; Philadelphia, Pa. (9944)

4246. Dextroversion of the Heart.

Bernard H. Pastor, M.D., Ch. Cardiovasc. Sect.; George T. Wohl, M.D., Ch. Radiol. Serv., Ch. RI Serv.; Philadelphia, Pa. (9945)

4247. Transient Recovery of T Waves in Myocardial Infarction.

Bernard H. Pastor, M.D., Ch. Cardiovasc. Sect.; Philadelphia, Pa. (9946)

4247. The Enhancement of Digitalis Toxicity by Reserpine.

Bernard M. Lipschultz, M.D., Ch. Med. Serv.; Lee Ehrlich, M.D., Cons. Inter. Med.; Joe C. Ehrlich, M.D., Cons. Inter. Med.; Phoenix, Ariz. (10630)

4248. A Study of the Intrahepatic Segment of the Inferior Vena Cava.

Francis C. Jackson, M.D., Ch. Surg. Serv.; Lowell Wilder, Surg. Serv. Med. Stud.; Pittsburgh (Univ. Dr.), Pa. (11089)

4249. Effect of Hypertension on Cholesterolized Cortisone Treated Rabbits.

Edwin R. Fisher, M.D., Act. Ch. Clin. Lab.; Edward Tapper, Med. Stud. Clin. Lab.; Pittsburgh (Univ. Dr.), Pa. (11095)

4250. Vascular Lesions Produced by Hypertension and Hypersensitivity.

Edwin R. Fisher, M.D., Act. Ch. Clin. Lab., VAH; Jack Bark, Med. Stud., Univ. of Pitt.; Pittsburgh (Univ. Dr.), Pa. (11096)

4251. Localization of Plasma Proteins in Atherosclerotic and Normal Aortas.

Edwin R. Fisher, M.D., Act. Ch. Clin. Lab.; William R. Merchant, M.D., Asst. Dir. Prof. Serv. for Research; Pittsburgh (Univ. Dr.), Pa. (11097)

4252. A Technique Percutaneous Splenoportography with Spleen Pressure Study.

Francis C. Jackson, M.D., Ch. Surg. Serv.; Edward E. Longabaugh, M.D., Act. Asst. Ch. Surg. Serv.; Samuel A. Musmanno, M.D., Surg.; Pittsburgh (Univ. Dr.), Pa. (11131)

4253. Determination of the Gradient of Pressure Across the Mitral and Aortic Valves by Means of Left Heart Catheterization.

Brent M. Parker, M.D., Ch. Card. Sect.; Leonard W. Ritzmann, M.D., Ch. Med. Serv.; William C. Gardner, M.D., Ch. Thoracic Surg.; James F. Morris, M.D., Ch. Med. Chest Sect., VAH; Leonard B. Rose, M.D., Attend. Phys. Card., VAH, Clin. Instr. in Med., Univ. of Oregon; Portland, Oreg. (7143)

4254. Studies of Superior Mesenteric Artery Occlusion.

Robert A. Wise, M.D., Ch. Surg. Serv.; William R. Sweetman, M.D., Sect. Ch. Gen. Surg.; Lester A. Hagland, M.D., Surg. Resid.; Raymond J. Bungard, M.D., Surg. Resid.; David R. Morledge, M.D., Surg. Resid.; Portland, Oreg. (7153)

4255. A Study of the Value of the End-to-Side Bypass Operation for Vascular Obstruction Using Teflon—Part II.

Robert A. Wise, M.D., Ch. Surg. Serv.; William R. Sweetman, M.D., Sect. Ch. Gen. Surg.; Lester A. Hagland, M.D., Surg. Resid.; David R. Morledge, M.D., Surg. Resid.; Portland, Oreg. (7157)

4256. A Study of Renal Function in Hypertension including the Use of the So-Called Howard Test.

Ben C. Claunch, M.D., Ch. TB Sect. Med. Serv.; Stanley W. Daum, M.D., Staff Phys.; Providence, R.I. (7166)

4257. Study of Pulmonary Blood Flow and Pressure in Pulmonary Emphysema Related to Diffusing Capacity.

Albin N. Grenda, M.D., Ch. Thoracic Surg.; Roswell W. Phillips, M.D., Ch. Med. Serv.; Henry Burke, M.D., Staff Phys., VAH; Edward A. Gaensler, M.D., Inst. Surg., Boston Univ. Sch. of Med., Boston City Hosp.; Providence, R.I. (7177)

4258. Further Evaluation of the Usefulness of the Electronic Plethysmograph.

David L. Brook, M.D., Sect. Ch. Gen. Surg. & Orth.; Providence, R.I. (7178)

4259. Continuous Densitometric Recording of Indicator—Dilution Curves in the Measurement of Cardiac Output.

David W. Richardson, M.D., Asst. Dir. Prof. Serv. for Research; Eugene M. Wyso, M.D., Ch. Cardiovasc. Sect.; Donald P. Fitzpatric, M.D., formerly Resident Med.; Allen M. Hecht, M.D., formerly Resident Med.; D. Sheffer Clark, M.D., formerly Resident Med.; Gordon F. Cavell, M.D., Resident Med.; Richmond, Va. (7181)

4260. Pathogenesis of Pulmonary Hypertension in Obstructive Emphysema.

David W. Richardson, M.D., Asst. Dir. Prof. Serv. for Research; D. Sheffer Clark, M.D., Resid. Med.; Gordon F. Cavell, M.D., Resid. Med.; Richmond, Va. (7184)

4261. Pressor Amines in the Therapy of Shock due to Myocardial Infarction.

David W. Richardson, Asst. Dir. Prof. Serv. for Research; Eugene M. Wyso, Ch. Cardiovasc. Sect.; Richmond, Va. (7185)

4262. Development of Thermistor Flow Meter for Moment to Moment Recording of Coronary Flow in Man.

David W. Richardson, M.D., Asst. Dir. Prof. Serv. for Research; John L. Patterson, Jr., Attend. Phys., VAH, Assoc. Prof. Med., Med. Coll. of Virginia; Richmond, Va. (7187)

4263. Chlorothiazide in the Treatment of Severe Congestive Heart Failure.

D. P. Fitzpatrick, Resident Med.; Eugene M. Wyso, Ch. Cardiovasc. Sect.; David W. Richardson, Asst. Dir. Prof. Serv. for Research; Richmond, Va. (7188)

4264. Adrenal Steroid Therapy of Refractory Heart Failure.

Eugene M. Wyso, M.D., Ch. Cardiovasc. Sect.; Gordon F. Cavell, M.D., Resident Med.; David W. Richardson, M.D., Asst. Dir. Prof. Serv. for Research; Richmond, Va. (7191)

4265. Effects of Nitroglycerine on Coronary and Systemic Hemodynamics in Patients With Coronary Artery Disease.

David W. Richardson, M.D., Asst. Dir. Prof. Serv. for Research; Eugene M. Wyso, M.D., Ch. Cardiovasc. Sect.; D. Sheffer Clark, M.D., Resident Med.; Richmond, Va. (7192)

4266. Plasma Quinidine Concentration Following a Long Acting Quinidine Preparation.

David W. Richardson, M.D., Asst. Dir. Prof. Serv. for Research; Eugene M. Wyso, M.D., Ch. Cardiovasc. Sect. VAH; M. E. Zee, A. D. Williams Predoctoral Fellow Med. Scien., Med. Coll. Virginia; Richmond, Va. (7193)

4277. Vectorcardiography in Evaluation of Incomplete Right Bundle Branch Block.

Eugene M. Wyso, M.D., Ch. Cardiovasc. Sect.; D. Sheffer Clark, M.D., Resident Med.; Richmond, Va. (7194)

4278. Influence of Sodium Depletion on Salt Appetite.

Allan M. Unger, M.D., Attend. Phys., Med. Serv.; W. T. Thompson, Jr., M.D., Ch. Med. Serv.; Richmond, Va. (7196)

4279. Chemical Analysis of Adult Aortas.

Simon Russi, M.D., Path.; David Miller, Biochem.; Richmond, Va. (7216)

4280. Studies of Guanidoacetic Acid.

Joseph H. Magee, M.D., Act. Asst. Ch. Cord Injury Serv.; Allan L. Forbes, M.D., Clin. Invest.; David W. Richardson, M.D., Asst. Dir. Prof. Serv. for Research; Richmond, Va. (9892)

4281. Kinetics of Disappearance of Intravenously Infused Fats.

Allan L. Forbes, M.D., Clin. Invest.; Richmond, Va. (9893)

4282. Renal Function in Hypertension.

Joseph H. Magee, M.D., Act. Asst. Ch. Cord Injury Serv.; David W. Richardson, M.D., Asst. Dir. Prof. Serv. for Research; Eugene M. Wyso, M.D., Ch. Cardiovasc. Sect. VAH; Allan M. Unger, M.D., Attend. Phys. Med. Serv. VAH, Asst. Prof. Med., Med. Coll. of Va.; Richmond, Va. (9912)

4283. Hydrochlorothiazide in the Treatment of Severe Congestive Heart Failure.

Gordon F. Cavell, M.D., Resident Med.; Eugene M. Wyso, M.D., Ch. Cardiovasc. Sect.; David W. Richardson, M.D., Asst. Dir. Prof. Serv. for Research; Richmond, Va. (9913)

4284. Rational Choice of Diuretics.

W. T. Thompson, Jr., M.D., Ch. Med. Serv.; David W. Richardson, M.D., Asst. Dir. Prof. Serv. for Research; Eugene M. Wyso, M.D., Ch. Cardiovasc. Sect.; Richmond, Va. (9914)

4285. Prolonged Antihypertensive Effect of SU-5864.

David W. Richardson, M.D., Assist. Dir. Prof. Serv. for Research; Eugene M. Wyso, M.D., Ch. Cardiovasc. Sect.; Richmond, Va. (9915)

4286. Radioactive Diodrast in Measurement of Kidney Blood Flow.

Joseph H. Magee, M.D., Act. Asst. Ch. Cord Injury Serv. David W. Richardson, M.D., Asst. Dir. Prof. Serv. for Research; Richmond, Va. (9916)

4287. Circulatory Effects of Alteration in Blood Carbon Dioxide Tension.

David W. Richardson, M.D., Asst. Dir. Prof. Serv. for Research; John L. Patterson, Jr., M.D., Attend. Phys.; Richmond, Va. (9917)

4288. Use of Radioactive Krypton in Measurement of Coronary Blood Flow in Man.

David W. Richardson, M.D., Asst. Dir. Prof. Serv. for Research; Eugene M. Wyso, M.D., Ch. Cardiovasc. Sect.; Richmond, Va. (9918)

4289. The Electrocardiographic Change in Dogs Made Severely Hypopotassemic by Diet and Artificial Kidney Dialysis.

C. Hilman Castle, M.D., Ward Phys.; H. R. Hecht, M.D., Prof. Med., Univ. of Utah; Arthur Ruby, Research Tech.; Paul Sine, Research Tech.; Salt Lake City, Utah. (7364)

4290. Diuretic and Hemodynamic Effects of Chlorothiazide (6 Chloro-7-sulfamyl-1,2,4-benzothiazine-1,1-dioxide).

C. Hilman Castle, M.D., Ward Phys.; James Conrad, M.D., Research Fellow in Card., Univ. of Utah; H. H. Hecht, M.D., Prof. Med., Univ. of Utah; Salt Lake City, Utah. (7365)

4291. Cardiac Cathetorization.

Forrest M. Willett, M.D., Ch. Med. Serv., VAH; Arthur Selzer, M.D., Attend. VAH, Clin. Prof., Med., Stanford Univ. Sch. of Med.; Thomas V. Feichtmeir, M.D., Ch. Clin. Path. Serv., VAH; San Francisco, Calif. (7428)

4292. The Effect of Venesection on Cardiopulmonary Function in Patients with Secondary Polycythemia.

Forrest M. Willett, M.D., Ch. Med. Serv., VAH; Arthur Selzer, M.D., Attend. VAH, Clin. Prof. Med., Stanford Univ. Sch. of Med.; San Francisco, Calif. (7430)

4293. The Problem of Cardiac Arrest in Surgical Patients.

Louis G. Brizzolara, M.D., Former Ch. Surg. Serv., VAH; Henry L. Silvani, M.D., Attend. VAH, Assoc. Clin. Prof. Surg., Univ. California Sch. Med.; San Francisco, Calif. (7448)

4294. Visualization of the Coronary by X-Ray.

Chester E. Herrod, M.D., Attend. VAH, Clin. Instr. Surg., Stanford Univ. Sch. of Med.; John L. Wilson, M.D., Ch. Dept. Surg., VAH; San Francisco, Calif. (9779)

4295. Cardio-pulmonary Functional Studies in Pulmonary Schistosomiasis Mansoni.

Eli A. Ramirez, M.D., Ch. Med. Serv.; San Juan, P.R. (7469)

4296. Serum Lipid Studies in Puerto Ricans.

Eli A. Ramirez, M.D., Ch. Med. Serv.; P. H. Garcia Pont M.D., Resident, Med. Serv.; San Juan, P.R. (7474)

4297. Evaluation of the Serum Glutamic Oxaloacetic Transaminase Determination in the Detection of Myocardial Necrosis in Cases of Small Myocardial Infarction Due to Severe Coronary Insufficiency.

Dr. Eli A. Ramirez, Ch. Med. Serv.; Dr. Jenaro Haddock-Suarez, Ch. Diseases Kidney Sec. Med Serv.; San Juan, P. R. (7483)

4298. A Simple Method for the Quantitative Analysis and Evaluation of an Ordinary 12 Leads E.K.G. as a Helpful Ancillary Procedure to the Purely Qualitative "Pattern" Analysis of Classical Electrocardiography.

José A. Amadeo, M.D., Examining Phys. TB Serv.; Eli A. Ramirez, M.D., Ch. Med. Serv., VAH; Armando Saavedra, M.D., Examining Phys., VARO; San Juan, P.R. (7491)

4299. Correlation Between EKG Findings and Cardiac Mass.

Eli A. Ramirez, M.D., Ch. Med. Serv.; Juan M. Becerra, M.D., Intermed. Resident, Med. Serv.; San Juan, P.R. (11038)

4300. Studies of Left Ventricular End-Diastolic Volume in Man.

Harold T. Dodge, M.D., Ch. Cardiovasc. Lab.; Donald H. Ballew, M.D., Resident Med., VAH; Harold Sandler, M.D., Research Fellow Med. (Card.), Asst. Med., Univ. of Washington; Seattle, Wash. (7616)

4301. The Effects of Ventricular Rate, End-Diastolic Volume and Arterial Pressure on Ventricular Function in Man.

Harold T. Dodge, M.D., Ch. Cardiovasc. Lab.; Donald H. Ballew, M.D., Resident Med.; Seattle, Wash. (7617)

4302. Effects of Isoproterenol on Cardiovascular-Renal Function in Patients with Congestive Heart Failure.

Harold T. Dodge, M.D., Ch. Cardiovasc. Lab., VAH; Harold Sandler, M.D., Research Fellow Med. (Card.), Asst. Med., Univ. of Washington; Seattle, Wash. (7619)

4303. Changes in the Terminal Portion of QRS that Occur as a Consequence of Myocardial Infarction.

Harold T. Dodge, M.D., Ch. Cardiovasc. Lab.; Seattle, Wash. (7620)

4304. Tissue Culture Approach to Atherosclerosis.

Harold T. Dodge, M.D., Ch. Cardiovasc. Lab.; Wayne A. Crockett, M.D., Clin. Invest.; Seattle, Wash. (7621)

4305. Chlorothiazide Study.

John L. Bakke, M.D., Asst. Dir. Prof. Serv. for Research, Asst. Ch. Med. Serv., VAH; Robert B. Pelzel, M.D., Research Fellow Med., Univ. of Washington; Seattle, Wash. (7624)

4306. Prolonged Heart-Lung By-Pass With Oxygenator.

John W. Bell, M.D., Ch. Surg. Serv.; Francesco F. Beretta, M.D., Resident Surg.; Seattle, Wash. (7640)

4307. Effect of Acute Vascular Occlusion in Distal Intra-vascular Thrombosis.

John W. Bell, M.D., Ch. Surg. Serv.; Hubert M. Radke, M.D., Resident Surg.; Seattle, Wash. (7642)

4308. Nature of Thrombi in Thrombotic Thrombocytopenia Purpura.

James M. Watanabe, M.D., Resident Path.; Seattle, Wash. (9250)

4309. Evaluation of Mitral Valve Insufficiency in Dogs: Electrical Analog Simulation of Radioisotope Dilution Data.

Daniel Hayden, Ph. D., Med. Stud., Univ. of Washington Sch. of Med.; Rex L. Huff, M.D., Ch. RI Serv., VAH; Wayne Garrett, M.D., Clin. Invest.; Seattle, Wash. (7653)

4310. Simultaneous Recording of I–131 Transients from Four Crystal Detectors from the Anterior Thoracic Wall.

Daniel Parrish, B.S., Physicist, Asst. Ch. Radiol. Safety and Adminis. Matters; Robert S. Leighton, M.D., Ch. Radiol. Serv.; Seattle, Wash. (7655)

4311. Investigation of "Stress Polycythemia" (Plasma Hypovolemia).

Wayne Crockett, M.D., Clin. Invest.; Rex L. Huff, M.D., Ch. RI Serv.; David D. Feller, Ph. D., Act. Ch. RI Serv.; Seattle, Wash. (7656)

4312. The Effect of Parathyroidectomy on Experimental Hypercholesterolemia in Dogs.

John L. Bakke, M.D., Asst. Ch. Med Serv.; John W. Bell, M.D., Ch. Surg. Serv.; Paul V. Hoyer, M.D., Resident Med.; Seattle, Wash. (8813)

4313. Vascular Effects of Prolonged Injections of Trypan Blue.

David V. Brown, M.D., Ch. Lab. Serv.; Seattle, Wash. (9228)

4314. Cardiac Performance During Partial By-Pass with Extracorporeal Perfusion.

John W. Bell, M.D., Ch. Surg. Serv.; Daniel G. Parrish, Asst. Ch. RI Serv.; Grandon E. Tolstedt, M.D., Act. Asst. Ch. Surg. Serv.; Seattle, Wash. (9229)

4315. Relation of Left Ventricular End-Diastolic and Left Atrial-Volumes to "Pulmonary Blood Volume" in Man

Harold T. Dodge, M.D., Ch. Cardiovasc. Lab.; Donald H. Ballew, M.D., Resident Med.; Harold Sandler, M.D., Research Fellow Med (Card.); Seattle, Wash. (9231)

4316. Physiological Effects of Angiocardiographic Contrast Material in Man.

Harold T. Dodge, M.D., Ch. Cardiovasc. Lab.; Donald H. Ballew, M.D., Resident Med.; Seattle, Wash. (9233)

4317. Quantification of Mitral and Aortic Valve Insufficiency by Determination of Left Ventricular Output.

Harold T. Dodge, M.D., Ch. Cardiovas. Lab.; Harold Sandler, M.D., Research Fellow Med. (Card.); Donald H. Ballew, M.D., Resident Med.; Seattle, Wash. (9234)

4318. Method for Calculating Left Ventricular Volume From Biplane Angiocardiograms.

Harold T. Dodge, M.D., Ch. Cardiovasc. Lab., VAH; Harold Sandler, M.D., Research Fellow in Med. (Card.), Asst. Med., Univ. of Washington; Donald H. Ballew, M.D., Resident Med., VAH; Seattle, Wash. (9246)

4319. Nature of Thrombi in Thrombotic Thrombocytopenia Purpura.

James M. Watanabe, M.D., Resident Path.; Seattle, Wash. (9250)

4320. The Effects of Ultrasound on Peripheral Circulation.

Irvin F. Travis, Ch. Phys. Ther.; Robert Miller, M.D., Cons. Phy. Phys. Med.; Sepulveda, Calif. (7520)

4321. The Experimental Use of a Transplant of Gastric Wall to Supplement Blood Flow to the Myocardium.

Robert T. Hood, Jr., M.D., Attend. Surg.; Charles E. Brown, M.D., Ward Phys.; Gordon J. Kinley, M.D., Ward Phys.; Sepulveda, Calif. (7529)

4322. Development of the Clip Method of Arterial Anastomosis.

Peter B. Samuels, M.D., Cons., Surg. Research; Jack Voskamp, M.D., Staff Surg.; Sepulveda, Calif. (7530)

4323. Clinical Evaluation of Hydrochlorthiazide.

E. Q. King, M.D., Ph. D., Ward Phys.; William Madden, M.D., Ward Phys.; R. W. Brawley, M.D., Ch. Med. Serv.; Sepulveda, Calif. (10461)

4324. Metabolism of the Transplanted Heart.

Richard J. Bing, M.D., Asst. Dir. Prof. Serv. for Research, VAH; Kyohei Kako, M.D., Research Fellow Card., Washington Univ. Sch. Med.; Joytirmoy D. Choudhury, M.D., Research Fellow Card., Washington Univ. Sch. Med.; St. Louis, Mo. (7675)

4325. Investigation of Single Cell Action Potentials from Infarcted and Normal Regions of the Rabbit's Heart.

Richard J. Bing, M.D., Asst. Dir. Prof. Serv. for Research; C. E. Hogancamp, M.D., Clin. Invest., VAH; Milton D. Kardesch, M.D., Fellow in Card., Washington Univ. Sch. Med.; St. Louis, Mo. (7676)

4326. Study of Fat Metabolism on the Human Heart.

Richard J. Bing, M.D., Asst. Dir. Prof. Serv. for Research, VAH; William H. Danforth, M.D., Asst. Dir., Washington Univ. Med. Serv.; Fred B. Ballard, M.D., Fellow Card., Washington Univ. Sch. Med.; Siegfried Naegle, B.S., Research Asst., Washington Univ. Sch. Med.; St. Louis, Mo. (7677)

4327. Serum Enzymes in Differential Diagnosis of Post Operative Oliguria.

Falls B. Hershey, M.D., Dir. Washington Univ. Surg. Serv. at VAH; Murray M. Bett, M.D., Resident Surg.; Jerome D. Skagga, Stud. Research Asst.; Gloria Johnston, Research Asst., Washington Univ.; St. Louis, Mo. (7692)

4328. Electron-Irradiated and Freeze-Dried Arterial Homographs: Experiences at the St. Louis Artery Bank.

Falls B. Hershey, M.D., Dir. Washington Univ. Surg. Serv. at VAH; J. G. Trump, Ph. D., Prof. Electrical Eng., Massachusetts Inst. Tech.; H. J. Solomon, M.D., Resident Surg., St. Louis City Hosp.; Sam Joseph, M.D., Resident Surg., St. Louis City Hosp.; St. Louis, Mo. (7697)

4329. Factors Involved in Recovery of Cardiac Function Following Elective Arrest for Open Heart Surgery.

Charles J. Galbraith, M.D., Dir. St. Louis Univ. Surg. Serv.; V. L. Willman, M.D., Staff Phys., VAH; St. Louis, Mo. (7690)

4330. New Method for the Determination of Blood Amonia.

Falls B. Hershey, M.D., Dir. Washington Univ. Surg. Serv. at VAH; Jesse Tirnberg, M.D., Fellow Surg. Research, Washington Univ.; St. Louis, Mo. (7701)

4331. Atlas of Cardiovascular Surgery and Peripheral Vascular Surgery.

Falls B. Hershey, M.D., Dir. Washington Univ. Surg. Serv. at VAH; Thomas Burford, M.D., Cons., VAH, Cardiovasc. Surg., Washington Univ.; St. Louis, Mo. (7705)

4332. The Determination of Coronary Blood Flow with Rb^{86}

Robert E. Mack, M.D., Ch. Med. Serv.; Richard J. Bing, M.D., Asst. Dir. Prof. Serv. for Research; Charles E. Hogancamp, M.D., Career Invest.; David D. Nolting, M.D., Asst. Ch. Med. Serv.; St. Louis, Mo. (7719)

4333. The Utilization of Individual Fatty Acids by the Heart.

Richard J. Bing, M.D., Assist. Dir. Prof. Serv. for Research, VAH; Siegfried Naegle, B.S., Research Assist., Wash. Univ. Sch. of Med.; St. Louis, Mo. (9720)

4334. Biochemical Studies on the Ability of the Heart To Recover From Anoxia.

Richard J. Bing, M.D., Assist. Dir. Prof. Serv. for Research, VAH; William H. Danforth, M.D., Asst. Dir., Washington Univ. Med. Serv.; Siegfried Naegle, B.S., Research Assist., Washington Univ. Sch. Med.; St. Louis, Mo. (9721)

4335. Carbohydrate Metabolism of the Whole Heart During Myocardial Anoxia.

Richard J. Bing, M.D., Assist. Dir. Prof. Serv. for Research, VAH; William H. Danforth, M.D., Assist. Dir., Washington Univ. Med. Serv.; Fred B. Ballard, M.D., Fellow in Card., Washington Univ. Sch. Med.; St. Louis, Mo. (9722)

4336. Mechanism of Acute Heart Failure.

Richard J. Bing, M.D., Assist. Dir. Prof. Serv. for Research, VAH; Kyohei Kako, M.D., Research Fellow in Card., Washington Univ. Sch. Med.; Joytirmoy D. Choudhury, M.D., Research Fellow in Card., Washington Univ. Sch. Med.; St. Louis, Mo. (9723)

4337. Water and Electrolyte Metabolism Associated With Extra Corporeal Circulation.

Charles J. Galbraith, M.D., Dir. St. Louis Univ. Sec. Surg.; V. L. Willman, M.D., Phys. VAH; St. Louis, Mo. (9724)

4338. The Catechol Amine Excretion Following Extra Corporal Circulation.

Charles J. Galbraith, M.D., Dir. St. Louis Univ. Sec. Surg.; V. L. Willman, M.D., Phys. VAH; St. Louis, Mo. (9725)

4339. The Therapeutic Effect of Amino Acids.

Richard J. Bing, M.D., Assist. Dir. Prof. Serv. for Research; St. Louis, Mo. (9727)

4340. The Determinants of Aldosterone Secretion.

Robert E. Mack, M.D., Ch. Med. Serv., Ch. RI Serv.; Kathleen T. Hart, Ph. D., Biochem. (Prin. Scien.), RI Serv., VAH; Rene Wegria, M.D., Prof. and Dir. Dept. Med., St. Louis Univ. Sch. of Med.; St. Louis, Mo. (9728)

4341. The Effects of Various Factors on Absorptive Levels of Serum Lipids.

Charles J. Galbraith, M.D., Dir. St. Louis Univ. Sec. Surg.; James F. Sullivan, M.D., Phys., VAH; Kathleen T. Hart, Ph. D., Biochem. (Prin. Scien.) RI Serv.; St. Louis, Mo. (9729)

4342. Pathological and Radiographic Studies of Amputated Extremities.

Falls B. Hershey, M.D., Dir. Washington Univ. Surg. Serv. at VAH; W. O. Aitken, M.D., Resident Surg., Barnes Hosp.; Lauren V. Ackerman, M.D., Cons. Path., VAH; Warren G. Stamp, M.D., Resident Surg., Barnes Hosp.; St. Louis, Mo. (9730)

4343. Techniques of Vascular Surgery.

Falls B. Hershey, M.D., Dir. Washington Univ. Surg. Serv. at VAH; Carl H. Calmin, M.D., Attend. Surg.; St. Louis, Mo. (9731)

4344. Serum Transaminase in Acute Myocardial Infarction.

Lionel A. Rudolph, M.D., Attend. Med., VAH, Clin. Instr. Med., State Univ. New York Coll. Med.; J. Albert Schaefer, M.D., Ch. Lab. Serv., VAH; Robert E. Dutton, M.D., Phys., VAH; Richard H. Lyons, M.D., Cons. Med., VAH, Prof. and Chm. Dept. Med., State Univ. New York Coll. Med.; Syracuse, N.Y. (7763)

4345. The Effect of Inositol and Sitosterol on the Serum Lipid Concentration in Hyperlipemic Patients.

Anthony T. Ladd, M.D., Ch. Hemat. Sec.; Syracuse, N.Y. (7766)

4346. Studies of Spatial Vectocardiographic Data Displayed on a Linear Time Scale.

J. A. Abildskov, M.D., Attend. Med.; Andrew Kerr, Jr., M.D., Asst. Ch. Med.; Syracuse, N.Y. (7779)

4347. A Study of the Single Breath Diffusing Capacity in Normal Subjects and Patients With Congenital and Acquired Heart Disease.

J. Howland Auchincloss, Jr, M.D., Attend. Med., VAH, Assoc. Prof. Med., State Univ. New York Coll. Med.; Robert Gilbert, M.D., Clin. Invest., VAH; Robert H. Eich, Attend. Med., VAH; Asst. Prof. Med., State Univ. New York Coll. Med.; Syracuse, N.Y. (7783)

4348. A Study of the Identification and Quantitative Measurement of Digitoxin in Body Fluids.

Robert Gilbert, M.D., Clin. Invest.; Syracuse, N.Y. (7784)

4349. A Study of the Use of Viable Intestinal Segments as Aortic Grafts in Dogs.

Herbert D. Gullick, M.D., Asst. Ch. Surg. Serv.; Syracuse, N.Y. (7796)

4350. Determination of the Physical Properties of Normal Blood Vessels, Arteriosclerotic Arteries, and a Selected Group of Prosthetic Substitutes With Respect to Changes in Vessel Distensibility Under Varying Conditions of Pressure and Pulse Rate.

Edward Dunn, M.D., Attend. Surg., VAH, Clin. Instr. Surg., State Univ. New York Coll. Med.; Lloyd S. Rogers, M.D., Ch. Surg. Serv., VAH; Syracuse, N.Y. (7799)

4351. Variations in Myocardial Oxygenation With Abdominal Trauma.

Francis Caliva, M.D., Attend. Phys. Med., VAH, Asst. Prof. Med., State Univ. New York Coll. Med.; Lloyd S. Rogers, M.D., Ch. Surg. Serv.; Syracuse, N.Y. (7801)

4352. Cardiac Output Determinations by External Measurements Employing I^{131} Labeled Human Serum Albumin.

Robert H. Eich, M.D., Attend. Med., VAH, Asst. Prof. Med., State Univ. New York; William R. Chaffee, M.D., Instr. Med., State Univ. New York; Robert B. Chodos, M.D., Ch. RI Serv., VAH; Syracuse, N.Y. (7815)

4353. The Electropolarographic Studies of Myocardial Oxygenation. I. Evaluation of the "Beck I" Operation.

Lloyd S. Rogers, M.D., Ch. Surg. Serv.; Francis Caliva, M.D., Attend. Phys. Med., VAH, Asst. Prof. Med., State Univ. of New York Coll. of Med.; Syracuse, N.Y. (8726)

4354. Erythropoiesis and Blood Destruction in Congestive Heart Failure.

Robert B. Chodos, M.D., Ch. RI Serv., VAH; William R. Chaffee, M.D., Resident Med., State Univ. of New York Coll. of Med. in Syracuse; Syracuse, N.Y. (8727)

4355. Thyronine Analogues and the Control of Plasma Cholesterol Concentrations.

William R. Ruegamer, Ph. D., Prin. Scient. RI Serv.; Syracuse, N.Y. (8731)

4356. Study of the Diuretic, Hydroflumethiazide.

Francis S. Caliva, M.D., Asst. Prof. Med., State Univ. New York Coll. Med.; Robert B. Chodos, M.D., Ch. RI Serv., VAH; Frederic Taylor, M.D., Resident Med.; William Chaffee, M.D., Instr. Med., State Univ. of New York Coll. Med.; Syracuse, N.Y. (8938)

4357. Thyronine Analogues and the Control of Plasma Cholesterol Concentrations.

William R. Ruegamer, Ph. D., Prin. Scien. RI Serv.; Syracuse, N.Y. (9856)

4358. Studies of Clinical Electrolyte Disturbances.

Craig W. Morris, M.D., Ward Phys.; Togus, Maine. (7847)

4359. A Reevaluation of the Problem of Hyperparathyroidism in Renal Stone Formers.

Meyer Emanuel, M.D., Ch. Genitourinary Sect.; Togus, Maine. (7851)

4360. A Clinical Study of Coronary Disease.

Russell M. Wilder, Jr., M.D., Ph. D., Ch. Psychosomatic Serv.; Robert K. Jones, M.D., Asst. Ch. Psychosomatic Serv.; John B. Deiter, Ph. D., Asst. Ch. Psychol. Serv.; Topeka, Kans. (9256)

4361. Cholesterol Values in Mobilization for Activity.

Russell M. Wilder, Jr., M.D., Ph. D., Ch. Psychosomatic Serv.; Robert K. Jones, M.D., Asst. Ch. Psychosomatic Serv.; John B. Deiter, Ph. D., Asst. Ch. Psychol. Serv.; Topeka, Kans. (10529)

4362. Hypertensive Vascular Disease in Negro Males.

Earl T. Odom, M.D., Ch. Med. Serv.; Charles N. Pitts, M.D., Asst. Ch. Med. Serv.; James D. Trader, M.D., Phys. Med. Serv.; James M. Jones, M.D., Resident Med. Serv.; Tuskegee, Ala. (5781)

4363. Rheumatic Heart Disease in Negroes.

Earl T. Odom, M.D., Ch. Med. Serv.; Tuskegee, Ala. (5782)

4364. Juvenile Pattern in Electrocardiograms of Normal Negro Adults.

Howard W. Kenney, M.D., Dir. Prof. Serv.; Daniel J. Thompson, M.D., Sect. Ch. Med. Infirmary Serv.; James D. Trader, M.D., Phys. Med. Serv.; Leon R. Williams, M.D., Sect. Ch. Pulm. Disease Serv.; Preston E. Steele, EKG Tech.; Tuskegee, Ala. (7926)

4365. Evaluation of Transaminase Determinations.

Albert Jackson, M.D., Ch. Intern. Med.; Keith S. Bowman, Super. Chem. (Biochem); Wadsworth, Kan. (8031)

4366. Phonocardiographic Differential Diagnostic Features of Aortic Stenosis.

Albert Jackson, M.D., Ch. Med. Serv., VAC, Wadsworth, Kan.; Sherman Steinzeig, M.D., Cons., VAC, Assoc. Med., Kansas Univ. Medical Center; Kansas City, Kan. (8035)

4367. A Study of Oscillometric Readings and Skin Temperature of Lower Extremities of Normal Individuals in Different Age Groups in Varying Room Temperatures.

Adeline B. Gauger, M.D., Ch. PMR Serv.; Norma V. Reynolds, B.S., Ch. Phys. Therapy, VAC, Wadsworth, Kan.; Donald L. Rose, M.D., Dir. Phys. Med., Univ. of Kansas Med. Center; Kansas City, Kan. (8037)

4368. Coronary Blood Flow in Health and Disease.

Werner Brauer, M.D., Ch. Surg. Serv.; Paul H. Guilfoil, M.D., Asst. Ch. Surg. Serv.; Robert E. McCall, M.D., Staff Surg.; Wadsworth, Kan. (8564)

4369. Circulatory By-pass of the Right Heart.

Werner Brauer, M.D., Ch. Surg. Serv.; Paul H. Guilfoil, M.D., Asst. Ch. Surg. Serv.; Robert E. McCall, M.D., Staff Surg.; Wadsworth, Kan. (8568)

4370. Chemotherapy of Hypertension.

Edward D. Freis, M.D., Ch. Med. Serv.; Harold W. Schnaper, M.D., Asst. Ch. Med. Serv.; Washington, D.C. (7945)

4371. Physiological Mechanisms of Antihypertensive Drugs: Chlorothiazide.

Edward D. Freis, M.D., Ch. Med. Serv.; Harold W. Schnaper, M.D., Asst. Ch. Med. Serv.; Washington, D.C. (7946)

4372. Sensitization With Saluretic Agents of Blood Pressure Responses in Man to Pressor and Depressor Agents.

Edward D. Freis, M.D., Ch. Med. Serv., VAH; Annemarie Wanko, M.D., Fellow Cardiovasc. Research, Georgetown Univ.; Washington, D.C. (7947)

4373. Physiologic Mechanisms of Action of Antihypertensive Agents: Vascular Volume Changes.

Edward D. Freis, M.D., Ch. Med. Serv., VAH; Ilse M. Wilson, M.D., Fellow Cardiovasc. Research, Georgetown Univ.; Washington, D.C. (7948)

4374. Hemodynamic Changes During Treatment of Coronary Shock With Pressor Agents.

Edward D. Freis, M.D., Ch. Med. Serv.; Harold W. Schnaper, M.D., Asst. Ch. Med. Serv.; Washington, D.C. (7949)

4375. Application of Modern Computer Techniques to Clinical Electrocardiography.

Edward D. Freis, M.D., Ch. Med. Serv.; Hubert V. Pipberger, M.D., Phys. Vectrocard. Research; Washington, D.C. (7979)

4376. Correlation of Joint Biopsy and Clinical Findings.

Ruth H. Wichelhausen, M.D., Ch. Arth. Research Unit, VAH; William R. Felts, M.D., Instr. Med., George Washington Univ.; Thomas McP. Brown, M.D., Cons., VAH, Prof. Med., George Washington Univ.; Washington, D.C. (7987)

4377. Chemotherapy of Hypertension: Clinical Evaluation of 3,4 Dihydrochlorothiazide, a New Saluretic Agent (Preliminary Report).

Albert F. Esch, M.D., Resident Med.; Ilse M. Wilson, M.D., Fellow, Cardiovasc. Research; Edward D. Freis, M.D., Ch. Med. Serv.; Washington, D.C. (10613)

4378. Time-Concentration Curves Over Calf and Foot of I–131 Labelled Human Serum Albumin (RISA) Following Intraarterial Injection.

Edward D. Frohlich, M.D., Fellow, Cardiovasc. Research; Frank J. Fedor, M.D., Fellow, Cardiovasc. Research; William V. C. Leahy, Ph. D., Phy. RI Serv.; Edward D. Freis, M.D., Ch. Med. Serv.; Washington, D.C. (10619)

4379. Renograms Using I–131 Labelled Diodrast, a Test for Unilateral Renal Disease.

Edward D. Frohlich, M.D., Fellow, Cardiovasc. Research; Frank J. Fedor, M.D., Fellow, Cardiovasc. Research; Edward D. Freis, M.D., Ch. Med. Serv.; Washington, D.C. (10620)

4380. Clearance of Intraarterial RISA: A New Method for the Separate Estimation of Skin and Muscle Blood Flow.

Edward D. Frohlich, M.D., Fellow, Cardiovasc. Research; Frank J. Fedor, M.D., Fellow, Cardiovasc. Research; Edward D. Freis, M.D., Ch. Med. Serv.; Washington, D.C. (10621)

4381. Transcapillary Exchange of Permeable Substances: Pulmonary Capillary Permeability in Pulmonary Disease.

Edward D. Freis, M.D., Ch. Med. Serv.; Edward D. Frohlich, M.D., Fellow, Cardiovasc. Research; Harold W. Schnaper, M.D., Asst. Ch. Med Serv.; Washington, D.C. (10622)

4382. Transcapillary Exchange of Permeable Substances: Effect of Ganglionic Blockade on Extracellular Distribution in the Lungs.

Harold W. Schnaper, M.D., Asst. Ch. Med. Serv.; Edward D. Frohlich, M.D., Fellow, Cardiovasc. Research; Edward D. Freis, M.D., Ch. Med. Serv.; Washington, D.C. (10623)

4383. Transcapillary Exchange of Permeable Substances: Uptake of the Tissues of Minute Doses of I–131 Labelled Insulin on Single Passage Through the Forearm Capillary Bed.

Harold W. Schnaper, M.D., Asst. Ch. Med. Serv.; Edward D. Frohlich, M.D., Fellow, Cardiovasc. Research; Edward D. Freis, M.D., Ch. Med. Serv.; Washington, D.C. (10624)

4384. Chemotherapy of Hypertension: Clinical Trial of SU–5864, A New Type of Antihypertensive Agent.

Edward D. Frohlich, M.D., Fellow Cardiovasc. Research; Edward D. Freis, M.D., Ch. Med. Serv.; Washington, D.C. (10625)

4385. The Effects of Unconditioned Stimuli Upon Electrocardiograms.

John W. Walsh, M.D., Ch. Med Officer; G. Donald Causey, Ph. D., Ch. Audio. Research and Clinc. Unit, VBO; Washington, D.C. (8505)

4386. Incidence and Significance of Postoperative Electrocardiographic Changes: A Serial Study.

William Baird, M.D., Ch. Intermed. Serv.; Woodrow W. Lindenmuth, M.D., Ch. Surg. Serv; Massimo Calabresi, M.D., Ch. Cardiovasc. Sec.; West Haven, Conn. (8068)

4387. Vascular Replacements

Woodrow W. Lindenmuth, M.D., Ch. Surg. Serv.; Carl J. May, M.D., Asst. Ch. Surg. Serv.; West Haven, Conn. (8091)

4388. The Biosynthesis of Cholesterol from C–14 Estate by Human Aortic Tissue.

Nicholas M. Alexander, Ph. D., Prin. Invest. RI Serv.; West Haven, Conn. (8140)

4389. The Biosynthesis of Cholesterol from C–14 Mevalonic Acid by Human Aortic Tissue.

Nicholas M. Alexander, Ph. D., Prin. Invest. RI Serv.; West Haven, Conn. (8144)

4390. Response of Aldosterone Secretion to Bleeding in the Hypophysectomized Dog.

Patrick J. Mulrow, M.D., Clin. Invest., VAH; William F. Ganong, M.D., Dept. Phy., Univ. of Calif, Berkeley, Calif.; West Haven, Conn. (9861)

4391. Measurement of Residual Bladder Urine with I^{131}-Diodrast.

Patrick J. Mulrow, M.D., Clin. Invest.; Donald L. Buchanan, M.D., Dir. RI Unit; Andrew Huvos, M.D., Resident Med. Serv.; West Haven, Conn. (9862)

4392. Clinical Study of a Family with Familial Nephritis.

Patrick J. Mulrow, M.D., Clin. Invest., VAH; Allen Aaron, M.D., Dept. Med., Yale Univ.; Gay Gathman, M.D., Dept. Med., Yale Univ., New Haven, Conn.; West Haven, Conn. (9863)

4393. Effects of Intrathoracic Pressure on the Pulmonary Circulation.

Massimo Calabresi, M.D., Ch. Cardiovas. Sect., VAH; Robert Nims, M.D., Ch. Pulm. Func. Sect.; Frank J. Gay, Jr., M.D., Assoc. Prof. Med., Yale Univ.; Jerome J. Daly, James Brown Fellow in Med., Yale Univ., New Haven, Conn.; West Haven, Conn. (9875)

4394. Azygos Vein Catheterization.

Massimo Calabresi, M.D., Ch. Cardivasc. Sect.; West Haven, Conn. (9876)

4395. Evaluation of Right Heart Catheterization for the Diagnosis of Valvular Heart Disease.

J. A. Williams, M.D., Asst. Ch. Surg.; D. Littmann, M.D., Ch. Card.; Richard Warren, M.D., Ch. Surg. Serv.; West Roxbury, Mass. (8155)

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4396. Altered Respiratory Physiology in Patients with Pulmonary Emphysema.

D. Littmann, M.D., Ch. Card.; R. E. Clancy, M.D., Asst. Ch. Med. Serv.; West Roxbury, Mass. (8157)

4397. Evaluation of Catheterization Methods—Particularly in the Diagnosis of Valvular Insufficiency.

J. A. Williams, M.D., Asst. Ch. Surg. Serv.; D. Littmann, M.D., Ch. Card.; West Roxbury, Mass. (8167)

4398. Effects of Low Fat Diet on Lipid Metabolism.

R. E. Clancy, M.D., Asst. Ch. Med. Serv.; S. Hashim, M.D., Cons.; B. E. Cooney, Research Diet.; West Roxbury, Mass. (8169)

4399. Effect of Antiatherogenic Diet on Surgical Atherosclerosis.

Richard Warren, M.D., Ch. Surg. Serv.; T. Van Italie, M.D., Attend. Med., VAH; F. J. Stare, M.D., Ph. D., Prof. and Chm. Nutrit., Harvard Sch. Pub. Health; S. Hashim, M.D., Phys., Sch. of Pub. Health; West Roxbury, Mass. (8186)

4400. Causes of Late Closures of Arterial Grafts.

R. Warren, M.D., Ch. Surg. Serv.; B. P. Bushueff, M.D., Ch. Radiol.; I. Gore, M.D., Ch. Lab. Serv.; R. C. Shepherd; West Roxbury, Mass. (8187)

4401. Methods of Restoration of Coronary Blood Flow.

Richard Warren, M.D., Ch. Surg. Serv.; West Roxbury, Mass. (8188)

4402. An Experimental Study of the Fate of Venous Autografts.

Richard Warren, M.D., Ch. Surg. Serv.; West Roxbury, Mass. (8191)

4403. Coronary Arteriography.

Richard Warren, M.D., Ch. Surg. Serv.; D. Littmann, M.D., Ch. Card.; Boris P. Bushueff, M.D., Ch. Radiol.; West Roxbury, Mass. (8195)

4404. Evaluation of Dye Dilution Techniques.

David Littmann, M.D., Card.; West Roxbury, Mass. (11049)

4405. Evaluation of Indirect Methods of Pulse Recording.

David Littman, M.D., Card.; West Roxbury, Mass. (11050)

4406. Visualization of Coronary Vascular Tree.

David Littmann, M.D., Card.; West Roxbury, Mass. (11051)

4407. Investigation Into and Evaluation of the Use of Intracardiac Carbon Dioxide Gas for the Purpose of Demonstrating Intracardiac and Pericardial Lesions.

David Littmann, M.D., Card.; West Roxbury, Mass. (11052)

4408. Appraisal of Coronary Atherosclerosis.

Ira Gore, M.D., Ch. Lab. Serv.; West Roxbury, Mass. (11053)

4409. Investigation of Mechanical Means for Maintaining Blood Pressure in Patients with Cardiogenic Shock Due to Myocardial Infarction.

David Littmann, M.D., Card.; West Roxbury, Mass. (11054)

4410. Replacement of the Inferior Vena Cava.

Rolf Shepherd, M.D., Fellow in Vasc. Surg, VAH; A. Scott Earle, M.D., Resident Surg., Peter Bent Brigham Hosp., Boston; Richard Warren, M.D., Ch. Surg. Serv., VAH; West Roxbury, Mass. (11056)

4411. Orthogonal Lead System.

David Littmann, M.D., Card.; West Roxbury, Mass. (11057)

4412. Investigation of Effect of RBBB on the Diagnosis of Left Ventricular Hypertrophy.

David Littmann, M.D., Card.; Oscar Starobin, M.D., Resident, Card.; West Roxbury, Mass. (11058)

4413. Clinical Chemical Acid-Base Studies in Cardiacs.

Joseph M. Guattery, M.D.; White River Junction, Vt. (8228)

4414. Alterations in Work Capacity of the Canine Heart Resulting From Surgical Intervention.

Richard H. Cardozo, M.D., Asst. Ch. Surg.; William J. Cummings, Jr., M.D., Asst. Ch. Anes.; White River Junction, Vt. (8801)

4415. Carbon Dioxide Diuresis Study.

Arthur Naitove, M.D., Resident Surg.; Heinz Valtin, M.D., Instruct. Physiol., Dartmouth Med. Sch.; White River Junction, Vt. (8805)

4416. Arteriosclerosis, a Study of Arterial Lesions.

A. Daniels, M.D., Ch. Lab. Serv.; Whipple, Ariz. (8211)

4417. Cardio-Respiratory Research on Hospitalized Patients.

I. Walzer, M.D., Ch. Med. Serv.; Whipple, Ariz. (8404)

4418. Atherosclerosis, Anti-Cholesterol, Anti-Steroid-Hormone Compounds.

Nathan F. Blau, Ph. D., Research Chem., VAC; C. G. Stuckwisch, Ph. D., Assoc. Prof. Org. Chem., Univ. of Wichita; Wichita, Kans. (10159)

4419. Leukocyte Response to Cardiac Catheterization.

Lyle H. Hamilton, Ph. D., Ch. Physiol. Sec.; Wood, Wis. (8282)

4420. Cerebral Blood Flow, Vascular Resistance, and Oxygen Consumption During Extracorporeal Circulation.

A. Stephen Close, M.D., Clin. Invest.; Lyle H. Hamilton, Ph. D., Ch. Phys. Sec.; Derward Lepley, M.D., Attend., VAC, Inst. Surg., Marquette; Wilson Weisel, M.D., Attend., VAC, Asst. Clin. Prof. Surg., Marquette; Wood, Wis. (8301)

4421. A Comparison of Persons With Hypertensive Cardiovascular Disease and Persons With Arteriosclerotic Heart Disease Without Hypertension on Level-of-Aspiration Behavior.

Desmond D. O'Connell, Ph. D., Ch. Voc. Counsel. Serv.; Richard M. Lundy, Ph. D., Cons. Clin. Psychol.; Wood, Wis. (8306)

4422. Pulmonary Function and Circulatory Dynamics in Normal Individuals.

Ross C. Kory, M.D., Asst. Dir. Prof. Serv. for Research; Julius M. Meyer, M.D., Attend. Cardiovasc. Research, VAH, Asst. Clin. Prof. Med., Marquette; Howard L. Correll, M.D., Cons. Cardiovasc. Sec., VAC, Assoc. Clin. Prof. Med., Marquette; Walter H. Thiede, M.D., Phys. Cardiopul. Lab.; Wood, Wis. (8255)

4423. Extracorporeal Circulation: I. A Study of Glucose and Glycogen Depletion During Prolonged Perfusion. II. Potassium Adsorption as a Factor in Mineral Loss During Perfusion With a Bubble Type Oxygenator.

Wilson Weisel, M.D., Attend. Thoracic Surg., VAC, Asst. Clin. Prof. Surg., Marquette; A. Stephen Close, M.D., Clin. Invest., VAC; Derward Lepley, M.D., Attend., VAC, Instr. Surg.; Marquette; Yale H. Zimberg, M.D., Resident Thoracic Surg. Wood, Wis. (9733)

4424. Clinical and Physiologic Evaluation of the New Hypotensive Drug, 1-(2-Methoxyphenyl)-4-(3-Methoxypropyl)-Piperazine Phosphate, HT-1479.

Walter H. Thiede, M.D., Phys. Cardiopul. Lab., VAC; Julius M. Meyer, M.D., Attend. Cardiovasc. Research, VAC, Asst. Clin. Prof. Med., Marquette; Ross C. Kory, M.D., Asst. Dir. Prof. Serv. for Research, VAC; Wood, Wis. (9756)

4425. The Effects of Posture and Induced Pathological States on the Pulmonary Circulation.

Lyle H. Hamilton, Ph. D., Ch. Phys. Sec., Research Serv.; Wood, Wis. (9757)

8. Respiratory Diseases, Except Tuberculosis

4426. Study of the Effect of Pulmonary Resection on Pulmonary Function.

James H. Cullen, M.D., Ch. Med. Serv.; William U. Reidt, M.D., Ch. Pulm. Disease Sec.; Lawrence H. B. Smith, M.D., Phys., Med. Serv.; Albany, N.Y. (2003)

4427. Effect of Tracheostomy on Ventilation and Arterial Blood Gases.

James H. Cullen, M.D., Ch. Med. Serv.; William U. Reidt, M.D., Ch. Pulm. Disease Sec.; Lawrence H. B. Smith, M.D., Phys., Med. Serv.; Albany, N.Y. (2008)

4428. Physiologic Differentiation of Bronchospastic Disease (Asthma) From Pulmonary Emphysema With Tissue Destruction.

J. H. Cullen, M.D., Ch. Med. Serv.; W. U. Reidt, M.D., Ch. Pulm. Dis. Sec.; P. A. Cifarelli, Cardiopulm. Func. Tech.; N. G. Gatto, Cardiopulm. Func. Tech.; Albany, N.Y. (8629)

4429. Study of the Ventilatory Effects of Demerol vs Demerol Plus Levallorphan Tartrate (Lorfan).

William U. Reidt, M.D., Ch. Pulm. Dis. Sec.; Albany, N.Y. (9278)

4430. Pulmonary Function Studies (Effects of Resection of Bullous Emphysema).

A. N. Longfield, M.D., Ch. Chest Serv.; W. A. Childs, M.D., Ch. Surg. Serv.; L. A. Postma, M.D., Ward Phys.; B. Lowenstein, M.D., Ward Phys.; Albuquerque, N. Mex. (2056)

4431. Pulmonary Function Studies (Thoracoabdominal Pressure in Emphysema).

A. N. Longfield, M.D., Ch. Chest Serv.; W. A. Childs, M.D., Ch. Surg. Serv.; Albuquerque, N. Mex. (2065)

4432. Analysis of Timed Expiratory Curves by Formula.

A. N. Longfield, M.D., Ch. Chest Serv.; R. D. Strickland, Ph. D., Research Biochem.; M. Anderson, Research Tech.; H. Sullivan, Research Tech.; Albuquerque, N. Mex. (2075)

4433. A Stereo Study of the Pathology and Histology of Fume Inflated Lungs.

William Hentel, M.D., Ch. Lab. Serv.; A. N. Longfield, M.D., Ch. Chest Serv.; Albuquerque, N. Mex. (11135)

4434. Evaluation of Timed Vital Capacity and its Relationship to Other Measures of Ventilatory Function.

J. Richard Johnson, M.D., Ch. Pulm. Dis.; Ann Arbor, Mich. (2128)

4435. Differential Value of Ventilatory Tests of Pulmonary Function.

J. Richard Johnson, M.D., Ch. Pulm. Dis.; Jean O. Campbell, B.S., Biochem.; Ann Arbor, Mich. (2129)

4436. Pneumocystis Pneumonia.

R. A. Vogel, Prin. Scient., Med. Research; M. T. Koger, Mycol. Med. Research; Atlanta, Ga. (2255)

4437. Establishment of a Pulmonary Function Laboratory.

Joseph G. Bohorfoush, M.D., Ch. Med. Serv.; Augusta, Ga. (2291)

4438. Animal Research on the Problems of Bronchial Closure and Tracheo-bronchial Grafts and Plastic Procedures.

R. E. McCall, M.D., Phys. Thoracic Surg. Sect.; M. W. Wolcott, M.D., Ch. Thoracic Surg. Sect.; C. Martin Rhode, M.D., Ch. Surg. Serv.; Augusta, Ga. (2300)

4439. Morphologic Variations in Routine Autopsy Correlated with History—Reference Smoking and Other Irritants.

F. G. Stephens, M.D.; C. P. Avato, M.D.; Augusta, Ga. (2314)

4440. Clinical Trial of SU 3822 (Ciba).

Mary E. Morgan, M.D., Phys. Med. Serv.; J. G. Bohorfoush, M.D., Ch. Med. Serv.; Augusta, Ga. (8531)

4441. Free *Vs.* Controlled Methods of Measuring Maximum Voluntary Ventilation.

Leon Bernstein, Ph. D., Research Phy., Ch. Cardiopulm. Func.; Lab.; Harry H. Herbst, M.D., Resident Med.; Robert C. Duvall, M.D., Ch. Med. Serv.; Baltimore, Md. (2341)

4442. Investigation of Possible Mechanisms for the Adaption Phenomenon in the Expansion of Rabbit Lungs.

Leon Bernstein, Ph. D., Ch. Cardiopulm. Func. Lab., VAH; Malcolm Godfrey, M.D., Fulbright Research Fellow, Johns Hopkins Sch. of Hygiene & Pub. Health; Baltimore, Md. (8570)

4443. Studies with Pulmonary Artery Occlusion.

Robert C. Duvall, M.D., Ch. Med. Serv.; Raymond J. Beasley, M.D., Asst. Ch. Med. Serv.; Leon Bernstein, Ph. D., Ch. Cardiopulm. Func. Lab.; Baltimore, Md. (8571)

4444. Prediction of Maximum Voluntary Ventilation from Forced Vital Capacity Expiration and Inspiration.

Leon Bernstein, Ph. D., Ch. Cardiopulm. Func. Lab.; Baltimore, Md. (9304)

4445. Distribution and Interchange of Ward and Corridor Air.

Carl W. Coblenz, M.M.E., Mech. Eng. U.S. Bureau Stand.; Francis O'Grady, M.D., M. Sc., Ch. Microbiol.-Air Hygiene, VAH; William F. Wells, B.S., Cons. Non-Med. Air Hygiene; Richard L. Riley, M.D., Cons., VAH, Assoc. Prof. Med., Johns Hopkins Sch. Hygiene & Public Health; Baltimore, Md. (9305)

4446. To Determine Benefits of Simple, Non-strenuous Breathing Exercises for Patients over 50 Years of Age with Diagnoses of Asthma, Emphysema, Bronchitis and Other Chest Conditions Resulting in Respiratory Embarrassment.

Angel M. Krikorian, M.S., R.P.T., Ch. Phys. Therapist; Bath, N.Y. (8640)

4447. Longitudinal Studies in Emphysema.

Milton B. Cole, M.D., Cons. Allergy; Joseph V. Hammel, M.D., Phys. Pulm. Disease Sect.; Alfred H. Lawton, M.D., Ph. D., Sc. D., Dir. Research Lab.; Vitus W. Manginelli, M.D., Ch. Pulm. Disease Sect.; Bay Pines, Fla. (2461)

4448. Comparison of Normal Bronchial Measurements With Those Found in Patients With Chronic Pulmonary Diseases.

Milton R. Himalstein, M.D., Ch. Otolaryng. Sect.; Harold Feld, M.D., Ch., Radiol. Sect.; Willard B. G. Terry, M.D., Asst. Ch. Lab. Serv.; Vitus W. Manginelli, M.D., Ch. Pulm. Disease Sect.; Bay Pines, Fla. (2463)

4449. Comparison of Electrophoretic Patterns in Allergic Asthma and Emphysema.

John T. Lane, M.D., Ch. Med. Serv.; L. J. Audioun, M.D., Intern. Med. Serv.; Biloxi (Biloxi Div.), Miss. (2512)

4450. The Effect of Oxygen on the Morphology of the Human Lung.

B. M. Hathaway, M.D., Ch. Lab. Serv.; Birmingham, Ala. (2549)

4451. Pleural Fluid Studies to be Done on Series of Patients With Pleural Effusions of Various Etiologies.

A. H. Russakoff, M.D., Cons. TB Med. Serv.; Charles B. McCall, Fellow, Diseases of the Chest; Birmingham, Ala. (2590)

4452. Correlation of Pulmonary Function Studies With Disease States.

Ben V. Branscomb, M.D., Act. Ch. Pulm. Phy. Lab.; Birmingham, Ala. (2591)

4453. The Effect of Temperature and Humidity on Bronchospasm.

Ben V. Branscomb, M.D., Act. Ch. Chest Dis. Div.; Birmingham, Ala. (2592)

4454. The Use of Bronchoscopy in the Management of Retained Pulmonary Exudate.

Ben V. Branscomb, M.D., Ch. Pulm. Phy. Sec.; Birmingham, Ala. (2593)

4455. The Determination of Dust and Pollen and the Control of Humidity in the Management of Asthma.

Ben V. Branscomb, M.D., Ch. Pulm. Phy. Sec.; Birmingham, Ala. (2594)

4456. The Use of the Tank Respirator in the Management of Severe Emphysema and Pulmonary Fibrosis.

Ben V Branscomb, M.D., Act. Ch. Chest Disease Div.; Birmingham, Ala. (2595)

4457. The Potentiation of the Effects of Cortisone on Bronchospasm by Simultaneous Administration of Isoniazid.

Ben V. Branscomb, M.D., Act. Ch. Chest Dis. Div.; Birmingham, Ala. (2596)

4458. Studies on the Physiology of Iron Lung Respiration in Pulmonary Disease.

Ben V. Branscomb, M.D., Act. Ch. Chest Dis. Div.; Birmingham, Ala. (2597)

4459. Improved Method for Blood-Gas Tension Determination.

Ben V. Branscomb, M.D., Act. Ch. Pulm. Phys. Lab.; Birmingham, Ala. (2603)

4460. Pulmonary Compliance in the "Orthopnea" of Chronic Pulmonary Disease.

Ben V. Branscomb, M.D., Act. Ch. Chest Dis. Div.; Birmingham, Ala. (2604)

4461. The Use of the Automobile Tire Pump in the Measurement of Bronchospasm.

Ben V. Branscomb, M.D., Act. Ch. Chest Dis. Div.; Birmingham, Ala. (2605)

4462. The Origin of the Sensations of Dyspnea.

Ben V. Branscomb, M.D., Act. Ch. Pulm. Phy. Lab.; Birmingham, Ala. (2607)

4463. Study of the Effect of Voluntary Ventilation at 2:00 a.m. on Morning Dyspnea and Emphysema.

Ben V. Branscomb, M.D., Act. Ch. Pulm. Phy. Lab.; Birmingham, Ala. (2608)

4464. Studies on Pulmonary Vaso-Constriction in Severe Emphysema.

Ben V. Branscomb, M.D., Act. Ch. Pulm. Phy. Lab.; William B. Jones, M.D., Clin. Invest. Cardiovasc. Research; Birmingham, Ala. (2609)

4465. The Effect of 60% Oxygen on the Pulmonary Histology of the Mouse.

Ben V. Branscomb, M.D., Act. Ch. Chest Dis. Div.; Beulah M. Hathaway, M.D., Ch. Lab. Serv., VAH; Charles B. McCall, M.D., Fellow, TB, National Academy of Sciences and National Research Council; Birmingham, Ala. (2611)

4466. The Effect of Pulmonary Artery Distention without Occlusion.

Charles H. Crump, M.D., Ch. Chest Dis. Sect.; Birmingham, Ala. (9685)

4467. The Effect of Potassium Chloride Infusion on the Renal Excretion of Bicarbonate in Respiratory Acidosis.

Charles H. Crump, M.D, Ch. Chest Dis. Sect.; H. V. Murdaugh, Jr., M.D., Asst. Ch. Med. Serv.; Birmingham, Ala. (9686)

4468. Studies on the Renal Response to Respiratory Acidosis and Alkalosis.

Charles H. Crump, M.D., Ch. Chest Dis. Sect.; H. V. Murdaugh, Jr., M.D., Asst. Ch. Med. Serv.; Birmingham, Ala. (9687)

4469. Studies on Salicylate Intoxication in Dogs.

Charles H. Crump, M.D., Ch. Chest Dis. Sect.; H. V. Murdaugh, Jr., M.D., Asst. Ch. Med. Serv.; Birmingham, Ala. (9688)

4470. Studies on Postural Drainage in Chronic Pulmonary Infection.

Ben V. Branscomb, M.D., Act. Ch. Pulm. Phy. Lab.; Birmingham, Ala. (9689)

4471. Studies on the Bacterial Flora in Patients whith Chronic Emphysema.

Ben V. Branscomb, M.D., Act. Ch. Pulm. Phy. Lab.; Charles B. McCall, M.D., Ch. Resident Med.; Birmingham, Ala. (9690)

4472. The Effect of Oxygen Therapy on the Pulmonary Histology of Man.

Ben V. Branscomb, M.D., Act. Ch. Pulm. Phy. Lab.; Beulah Hathaway, M.D., Ch. Lab. Serv.; Charles B. McCall, M.D., Ch. Resident Med.; Birmingham, Ala. (9691)

4473. The Effect of Experimental Pulmonary Emboli on the Carbon Monoxide Diffusing Capacity of the Lungs.

Charles H. Crump, M.D., Ch. Chest Dis. Sect.; Birmingham, Ala. (9692)

4474. The Effect of Overdistention on the Ventilation Perfusion Ratio of the Lung.

Charles H. Crump, M.D., Ch. Chest Dis. Sect.; Birmingham, Ala. (9693)

4475. The Adaptations of the Cardiovascular Mechanism to Heavy Exercise.

Ben V. Branscomb, M.D., Act. Ch. Pulm. Phy. Lab., Thomas J. Reaves, M.D., Cons. Med., VAH; Abe Siegel, Ph. D., Med. Coll. of Ala.; Birmingham, Ala. (9694)

4476. The Effect of Atmospheric Pollution on Pulmonary Function.

Ben V. Branscomb, M.D., Act. Ch. Pulm. Phy. Lab.; Birmingham, Ala. (9695)

4477. A Comparison of the Methods for Measuring Expiratory Flow Velocity.

Ben V. Branscomb, M.D., Act. Ch. Pulm. Phy. Lab.; Birmingham, Ala. (9696)

4478. The Effect of Smoking, Occupational Dust Exposure and Smog on the Pulmonary Histology in Man.

Ben. V. Branscomb, M.D., Act. Ch. Pulm. Phy. Lab.; Birmingham, Ala. (9697)

4479. Spontaneous Pneumothorax.

R. Karger, M.D., Resident, Gen. Surg. Sec.; Edward T. O'Hara, M.D., Asst. Ch. Surg.; Boston, Mass. (2703)

4480. Bullous Emphysema.

Daniel J. Stone, M.D., Ch. Chest Sec.; Arthur Schwartz, M.D., Attend. Chest Sec.; James A. Feltman, M.D., Attend. Chest Sec.; Bronx, N.Y. (4511)

4481. Analysis of Cases of Staphylococcal Pneumonia.

Daniel J. Stone, M.D., Ch. Chest Sec.; Julia Jones, M.D., Cons. Chest Sec.; Bronx, N.Y. (4563)

4482. Radiation Pneumonitis.

Bernard Roswit, M.D., Ch. Radiotherapy Serv.; Sol M. Unger, M.D., Asst. Ch. Radiotherapy Serv.; Bronx, N.Y. (4673)

4483. Enlargement of Innominate Artery Simulating Mediastinal Neoplasm: Report of 4 cases.

Robert A. Green, M.D., Asst. Ch. Chest Sec.; Bronx, N.Y. (8667)

4484. Repair of a Traumatic Rupture of Bronchus. Report of a Case and Review of Literature.

Kenneth C. Sze, M.D., Sec. Ch. Thoracic Surg.; Philip Cooper, M.D., Ch. Surg. Serv.; Bronx, N.Y. (8668)

4485. Mechanical Influences on Intrathoracic Vascular Pressures.

Dr. D. J. Stone, Ch. Cardiopulm. Lab.; Dr. Alvin Teirstein, Asst. Cardiopulm. Lab.; Dr. A. Schwartz, Attend Phys. Lab.; Dr. J. Feltman, Attend. Phys. Lab.; Bronx, N.Y. (8683)

4486. Respiratory Center Response in Normals, Polycythemia and Metabolic Alkalosis.

Daniel J. Stone, M.D., Ch. Chest Sec.-Med. Serv.; Arthur Schwartz, M.D., Attend.; James A. Feltman, M.D., Attend.; Bronx, N.Y. (10101)

4487. Pathogenesis of Gynecomastia in Lung Disease.

Sidney Sbar, M.D., Ch. Infect. Disease Sec.; Martin Sass, M.S., Biochem., Med. Serv.; Brooklyn, N.Y. (2860)

4488. Augmented Respiration in Pulmonary Insufficiency.

David R. Axelrod, M.D., Ch. Metab. Sec.; Benjamin Burbank, M.D., Cons.; Seymour S. Cutler, M.D., Attend. VAH; Stewart Owre, M.D., Long Island College and State University of New York, College of Medicine at New York City; Brooklyn, N.Y. (2887)

4489. The Correlation Between the Conductivity Method and Other Methods in the Determination of Operative Blood Loss.

Harry H. LeVeen, M.D., Ch. Surg. Serv.; Brooklyn, N.Y. (2903)

4490. Diffusion Study Across Polyethylene and Teflon Membrances During Total Cardiopulmonary Bypass.

Robert Klopstock, M.D., Ch. Thoracic Surg. Sec.; Armand A. Crescenzi, M.D., Resident, Thoracic Surg. Sec.; Anthony D. DiBenedetto, M.D., Attend.; Arthur A. Siebens, M.D., Cons.; Constantine Pereyma, M.D., Asst. Ch. Surg. Serv.; Kenneth Appell, M.D., Research Asst., Adj. Cancer Chemotherapy (NIH); Paul Glass, B.S., Biochem. Cardio-Pulmon. Sec.; Brooklyn, N.Y. (2909)

4491. Anatomical and Surgical Approach to Prevent Clinically Significant Air Leak Following Segmental Pulmonary Resection.

Robert Klopstock, M.D., Ch. Thoracic Surg. Sec.; Brooklyn, N.Y. (2911)

4492. Revascularization of the Ischemic Lungs.

Joseph T. Roberts, M.D., Ch. Card. Sec.; Buffalo, N.Y. (2975)

4493. Spontaneous Pneumothorax.

Archibald C. Cohen, M.D., Ch. TB Serv.; Butler, Pa. (3027)

4494. The Influence of Drugs on Pulmonary Ventilation in Chronic Emphysema.

Laura M. Cameron, M.D., Phys., TB Serv.; John M. Warren, M.D., Phys., TB Serv.; Butler, Pa. (3034)

4495. The Pneumonoconioses.

Archibald C. Cohen, M.D., Ch. TB Serv.; Butler, Pa. (3039)

4496. An Evaluation of Vital Capacity Difference in Patients With Pulmonary Emphysema and Bronchostenosis.

L. P. Nangeroni, M.D., Ward Phys.; Castle Point, N.Y. (3586)

4497. Teflon Graft for Tracheobronchial Reconstruction.

Richmond Douglass, M.D., Ch. Surg. Serv.; Peter G. Brandetsas, M.D., Staff Surg.; William McDonough, M.D., Staff Surg.; Castle Point, N.Y. (8914)

4498. The Effect of the Buffer Amine, 2 Amino 2-Hydroxymethyl 1,3 Propanediol (TRIS) on the Blood p002 of Dogs and the Study of Its Toxic Effects.

A. Nathan, M.D., Ch. TB Serv.; L. Nangeroni, M.D., Sec. Ch. Cardio-pulm. Lab.; F. Gorgonzola, Ch. Pharm.; Castle Point, N.Y. (9402)

4499. A Study of the Relationship of Stress, Peptic Ulcer and Anoxia in Pulmonary Emphysema.

Craig W. Borden, M.D., Ch. Med. Serv.; Stanford K. Sweany, M.D., Ch. Chest Disease Sec.; Chicago (Res.), Ill. (3650)

4500. Surgical Palliation of Pulmonary Emphysema With a New Operative Technic.

Floyd John Lewis, M.D., Attend. Surg. VAH, Prof. Surg. Northwestern; Stanford Sweany, M.D., Ch. Chest Dis. Sec., VAH; Thomas W. Shields, M.D., Staff Surg.; Thomas E. Starzl, M.D., Resident, Surg.; Chicago (Res.), Ill. (9109)

4501. Histological Studies of Malignant Nephrosclerosis.

Bernhard Chomet, M.D., Ch. Lab. Serv., VAH; Conrad Pirani, M.D., Attend. Phys., VAH, Prof. Path., Univ. of Ill. Coll. of Med.; Jonas Valaitis, M.D., Asst. Ch. Lab. Serv., VAH; Chicago (W.S.), Ill. (9392)

4502. Adrenocortical Activity in Chronic Pulmonary Emphysema and Peptic Ulcer.

George L. Baum, M.D., Ch. Pulm. Func. Unit; John M. Rumball, M.D., Ch. Med. Serv.; Coral Gables, Fla. (3220)

4503. An Analysis of the Significance of the Commonly Used Pulmonary Ventilation Test.

Russell H. Wilson, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Russell L. Horn, Med. Tech.; Evelyn Higgins, Math.; Dallas, Tex. (3282)

4504. A Study of the Effects of Increased Red Cell Mass and Plasma Volume on Pulmonary Compliance. To be Studied in Conjunction With the Body Plethysmograph.

Delmar O. Shields, M.D., Ch. Chest Disease Serv.; Russell H. Wilson, M.D., Asst. Dir. Prof. Serv. for Research; Dallas, Tex. (3283)

4505. A Study of the Mechanics of Breathing With Particular Reference to Pulmonary Compliance.

Robert J. Carabasi, M.D., Chest Disease Serv.; Russell H. Wilson, M.D., Ph. D., Dir. Research; Dallas, Tex. (3285)

4506. An Evaluation of the Etiologic Factors of Oxygen Unsaturation in Patients With Cirrhosis of the Liver or Severe Hepatitis.

Russell H. Wilson, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Bruce E. Jay, B.S., Biochem., Research Serv.; Dallas, Tex. (3289)

4507. Hemoglobin, Oxygen and Carbon Monoxide Kinetics.

Russell H. Wilson, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Bruce E. Jay, B.S., Research Biochem.; F. Evelyn Higgins, Math., Research Serv.; Dallas, Tex. (3290)

4508. Cerebral Hemodynamics and Metabolic Changes in Patients With Heart Disease.

Seymour Eisenberg, M.D., Asst. Ch. Med. Serv., VAH; Leonard L. Madison, M.D., Assoc. Prof. Intern. Med., Univ. of Texas Southwestern Med. Sch.; Dallas, Tex. (3296)

4509. A Study of the Alveolar Arterial Oxygen Diffusion Gradient by the Carbon Monoxide Method.

Russell H. Wilson, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Bruce E. Jay, B.S., Research Biochem.; Dallas, Tex. (3300)

4510. Experimental Emphysema in Rabbits and Dogs.

Russell H. Wilson, M.D., Ph. D., Dir. Research; James W. Finney, M.S., Research Microbiol.; Ernest H. Byers, Ph. D., Research Biochem.; Dallas, Tex. (10353)

4511. Electrophoretic Determinations of Gamma Globulin in Patients With Bronchiectasis.

Berkeley Slutzker, M.D.; Dayton, Ohio. (3375)

4512. Evaluation of Pulmonary Functions Studies in Older Age Groups.

James Taguchi, M.D.; Samuel Laneve, M.D.; Dayton, Ohio. (3376)

4513. Use of Needle Biopsy of the Pleura as a Means of Establishing a Diagnosis in Recurrent Pleural Effusion.

Berkeley Slutzker, M.D.; Dayton, Ohio. (3391)

4514. Non-Traumatic Amputations of the Lower Extremity—Indication, Morbidity, Mortality, Prognosis.

Richard J. Ireton, M.D., Ch. Surg. Serv.; Dayton, Ohio. (12039)

4515. Complications of Thoracotomy, a Ten Year Survey.
Ben T. Tom, M.D., Resident Surg.; Dayton, Ohio. (12051)

4516. A Symptomatic Treatment of Asthmatic Bronchitis.
S. William Simon, M.D., Allergist; Dayton, Ohio. (12056)

4517. Transient Anemia Associated in IV Amphoteracin B. Therapy.
William J. Matre, M.D., Ch. GI Sec.; Dayton, Ohio. (12057)

4518. Medical Treatment of Lung Abscess.
Berkeley Slutzker, M.D., Asst. Ch. Med. Chest Sec.; Dayton, Ohio. (12077)

4519. Pulmonary Function Studies With and Without Intermittent Positive Pressure Breathing.
James Taguchi, M.D., Ch. Card. Sec.; Dayton, Ohio. (12078)

4520. Experimental Production of Emphysema in Dogs.
B. Eiseman, M.D., Ch. Surg. Serv.; W. Silen, M.D., Asst. Ch. Surg. Serv.; Denver, Colo. (3495)

4521. Urinary Excretion of 5-Hydroxy Indole Acetic Acid in Patients With Pulmonary Infarction.
Thomas Vance, M.D., Med. Resident, VAH; W. E. Cooper, Student, Univ. of Colorado Sch. of Med.; Denver, Colo. (9453)

4522. Effect of I^{131} Therapy in Emphysema.
H. Elrick, M.D., Ch. Research Lab. and RI Serv.; J. Durrance, M.D., Ch. Chest Sec.; Denver, Colo. (9454)

4523. Physiologic Study of Cor Pulmonale.
J. R. Durrance, M.D., Ch. Chest Sec.; Denver, Colo. (9455)

4524. A Project To Determine New Prediction Formulas for Maximum Breathing Capacity and Vital Capacity in Normal Women.
J. R. Durrance, M.D., Ch. Chest Sec.; Robert Bolasny, Cardiopulm. Func. Tech.; Denver, Colo. (9456)

4525. Venous Lacunae in Pulmonary Disease.
J. R. Durrance, M.D., Ch. Chest Sec.; T. A. Witten, M.D., Asst. Ch. Med. Serv.; R. E. Bolasny, Cardiopulm. Func. Tech.; Denver, Colo. (9457)

4526. Pulmonary Function Studies in Emphysema.
J. E. Kelsey, M.D., Phy., Med. Serv.; E. C. Oldham, M.A., Biochem., Lab. Serv.; S. M. Horvath, Ph. D., Attend., Prof. Phys., Univ. of Iowa; Des Moines, Iowa. (3549)

4527. A Transistor Operated Carbon Dioxide Analyzer.
E. C. Oldham, Biochem. Lab. Serv.; Des Moines, Iowa. (3559)

4528. Surgical Treatment of Emphysema of the Lung.
Louis T. Palumbo, M.D., Ch. Surg. Serv.; Wendell S. Sharpe, M.D., Sec. Ch. Surg. Serv.; George W. Winkelman, M.D., Ch. Med. Serv.; Robert J. Kinney, M.D., Phy. Med. Serv.; Harry H. Samberg, M.D., Ch. PMR; Mr. Ellis C. Oldham, Ch. Biochem. and Dir. Lab. Research; Des Moines, Iowa. (8547)

4529. Cardiovascular and Respiratory Response to Serotonin in Dogs.

F. Manfredi, M.D., Research Fellow, Duke Univ.; H. O. Sieker, M.D., Ast. Ch., Med. Serv., VAH; Durham, N.C. (3896)

4530. Functional Study of the Broncho-Pulmonary Anastomoses in Experimental Animals.

F. Manfredi, M.D., Research Fellow, Duke Univ.; H. O. Sieker, M.D., Asst. Ch. Med. Serv., VAH; Durham, N.C. (3897)

4531. The Analysis of Expired Air C–14 in Dogs and Humans.

Edward Buckley, M.D., Resident Med., Duke Med. Center; Felice Manfredi, M.D., Instr. Med., Duke Med. Center; Herbert O. Sieker, M.D., Assoc. Prof. Med., Duke Med. Center; Henry Kamin, Ph. D., Biochem. RI Serv., VAH; Durham, N.C. (3972)

4532. The Effect of Aminophylline on Respiratory Center Sensitivity in Patients With Cheyne-Stokes Respiration.

K. Tripathy, M.D., Fellow in Med., Duke Med. Cen.; Albert Heyman, M.D., Ch. Neur. Sec., VAH; Herbert Sieker, M.D., Assoc. Prof. Med., Duke Med. Center; Durham, N.C. (9542)

4533. The Nitrous Oxide Pulmonary Excretion Curve Analysis, in Normals, Patients With Lung Disease, and Patients With Congestive Heart Failure.

Herbert A. Saltzman, M.D., Ch. Pulm. Serv., VAH; Samuel J. Friedberg, M.D., Instr. Med., Duke Med. Center; Felice Manfredi, M.D., Instr. Med. and Research Fellow, Duke Med. Center; Durham, N.C. (9543)

4534. Acute Pulmonary and Hemodynamic Changes in Human Patients With Pulmonary Embolism.

Herbert A. Saltzman, M.D., Ch. Pulm. Serv.; John W. Wallace, M.D., Ch. Cardiovascular-Renal Sec., VAH; Herbert O. Sieker, M.D., Assoc. Prof. Med., Duke Med. Center; Felice Manfredi, M.D., Instr. Med. and Research Fellow, Duke Univ.; Durham, N.C. (9544)

4535. The Effect of Heart Failure on Lung Function.

Herbert A. Saltzman, M.D., Ch. Pulm. Serv., VAH; Herbert O. Sieker, M.D., Assoc. Prof. Med., Duke Med. Center; Felice Manfredi, M.D., Instr. Med. and Research Fellow, Duke Med. Center; Durham, N.C. (9545)

4536. The Early Renal Hemodynamic Changes in Chronic Lung Disease.

Herbert A. Saltzman, M.D., Ch. Pulm. Serv., VAH; Herbert O. Sieker, M.D., Assoc. Prof. Med., Duke Med. Center; Felice Manfredi, M.D., Instr. Med. and Research Fellow, Duke Med. Center; Durham, N.C. (9546)

4537. The Use of an Organic Carbon Dioxide Buffer in Patients with Hypercapnia, Due to Chronic Lung Disease.

Felice Manfredi, M.D., Instr. Med. and Research Fellow, Duke Med. Center; Angelo Spoto, M.D., Fellow in Med., Duke Med. Center; Herbert O. Sieker, M.D., Assoc. Prof. Med., Duke Med. Center; Herbert A. Saltzman, M.D.; Ch. Pulm. Serv., VAH; Durham, N.C. (9547)

4538. Study of Respiratory Response Following I.V. Sodium Cyanide.

Constantin Cope, M.D., Resident, TB Serv., VAH; George C. Leiner, M.D., Cons., VAH, Ch. Card.-Pulm. Lab., Montefiore Hospital, N. Y. C.; Sol Abramowitz, B.S., Biochem., Card.-Pulm. Lab., VAH; East Orange, N.J. (4005)

4539. Determination of Improved Technique for Bronchograms.

Joseph R. Nahon, M.D., Ch. Radiol. Serv.; East Orange, N.J. (4026)

4540. A Study of the Spatial Vectorcardiogram in Pulmonary Hypertension.

Maurice J. Small, M.D., Ch. TB Serv., Henry Green, M.D., Attend. TB Serv.; Seymour Ribot, M.D., Attend. TB Serv; Sol Abramowitz, Biochem. Pulm. Func. Lab.; East Orange, N.J. (8623)

4541. Thyroid Ablation with Radioactive Iodine In Patients with Pulmonary Insufficiency.

Abraham A. Polachek, M.D., Ch. RI; Samuel J. Mangus, M.D., Resident Phys.; Irving Freeman, M.D., Ch. Med. Serv.; Fort Howard, Md. (4074)

4542. Postmortem Gas Analysis.

Norman Ende, M.D., Ch. Lab. Serv.; Fresno, Calif. (4104)

4543. Bacteriology of Lung Aspirations at Death, with Special Interest in the Gram Negative Bacilli.

Norman Ende, M.D., Ch. Lab. Serv.; Royal H. Sorensen, Bact.; Fresno, Calif. (9435)

4544. Possible Relation Between Pulmonary Emphysema and Gastrointestinal Complaints.

William E. Smedley, M.D., Act. Ch. Med. Serv.; Stanley J. Haukeness, M.D., Phys., Med. Serv.; Grand Junction, Colo. (10145)

4545. To Develop a Simple and Accurate Means of Sputum Culture in Chronic Bronchopulmonary Disease.

Angelo Toigo, M.D., Phys. Med. Serv.; Charlotte A. Colwell, Ph. D., Bact. Research Serv.; Hines, Ill. (4209)

4546. Study of Pulmonary Function in Patients with Sarcoidosis and the Effect of Adrenocortical Steroids on the Impairment of Pulmonary Function.

Angelo Toigo, M.D., Sect. Ch. Med. Serv.; Hines, Ill. (10360)

4547. Effects of Smoking on Mechanical Properties of the Lung in Normal Persons and Patients with Chronic Obstructive Lung Disease.

Hollis G. Boren, M.D., Phys. Med. Serv.; W. Morse Hicks, Jr., M.D., Asst. Ch. Med. Serv.; Houston, Tex. (4387)

4548. Electronic Respirator and Positive Pressure Control Study.

Hugh D. Bennett, M.D., Ch. Med. Serv.; Hollis G. Boren, M.D., Staff Phys.; Houston, Tex. (4388)

4549. Analysis and Evaluation of Factors Influencing Spirometer Response.

Hollis G. Boren, M.D., Staff Phys.; Houston, Tex. (4389)

4550. A Study of the Effect of Crimped Dacron Prostheses.

George L. Jordan, Jr., M.D., Ch. Surg. Serv., VAH; Michael E. DeBakey, M.C., Cons. VAH, Chm. Dept. Surg., Baylor Univ.; Bela Halpert, M.D., Ch. Lab. Serv., VAH; Houston, Tex. (4397)

4551. Clinical and Physiological Evaluation of Patients with Pulmonary Blebs and Bullae.

George L. Jordan, Jr., M.D., Ch. Surg. Serv.; Hollis G. Boren, M.D., Ch. Pulm. Func. Lab.; Hugh D. Bennett, M.D., Ch. Med. Serv.; Houston, Tex. (4448)

4552. Incidence of Rheumatoid Arthritis in Patients with Heart Disease.

Walter H. Dearing, M.D., Act. Asst. Dir. Prof. Serv.; Huntington, W. Va. (4818)

4553. A Study of Chronic Emphysema in the Middle Aged and Elderly Patient.

Eugene L. Walsh, M.D., Ch. Med. Serv.; Florence K. Hoback, M.D., Phys., Med. Serv.; Lawrence White, M.D., Cons. Thoracic Surg.; Huntington, W. Va. (4826)

4554. Pulmonary Diffusing Capacity at Rest and with Exercise.

J. C. Ross; Indianapolis, Ind. (4760)

4555. The Pulmonary Circulation in Emphysema: Cinefluorographic and Physiologic Study.

Roy H. Behnke, M.D., Ch. Med. Serv.; Indianapolis, Ind. (4761)

4556. Cinefluorographic Study of the Tracheobronchial Tree in Emphysema.

Roy H. Behnke, M.D., Ch. Med. Serv.; Indianapolis, Ind. (4762)

4557. Pulmonary Emphysema: Detailed Physiologic Study of Advanced Pulmonary Emphysema Including Cardiac Catheterization and Lung Volume and Function Studies.

Roy H. Behnke, M.D., Ch. Med. Serv.; Indianapolis, Ind. (4763)

4558. Evaluation of the Efficacy of Isoprophenamine Experimental Bronchodilator in Patients With Pulmonary Emphysema.

Roy H. Behnke, M.D., Ch. Med. Serv.; Indianapolis, Ind. (4765)

4559. Standardization of New Portable Expiratory Flow-Rate Apparatus Against Standard Methods in Normal Individuals and Patients With Pulmonary Disease.

Roy H. Behnke, M.D., Ch. Med. Serv.; Indianapolis, Ind. (4766)

4560. The Use of Small Tube Tracheostomy in the Prevention of Postoperative Atelectasis.

Leo R. Radigan, M.D., Ch. Surg. Serv.; Indianapolis, Ind. (10895)

4561. The Effect of Changing the Cerebral Blood Flow on the Response Time of the Respiratory Center.

Joseph C. Ross, M.D., Staff Phys.; Indianapolis, Ind. (10896)

4562. Clinical and Laboratory Studies of Sarcoidosis.

C. Fred McCuiston, M.D., Dir. Spec. Sarcoidosis Clin.; Paul C. Hudgins, Research Biol., VAO; Jacksonville, Fla. (10922)

4563. Epidemiologic Studies of Sarcoidosis.

C. Fred McCuiston, M.D., Dir. Sp. Sarcoidosis Clin.; Paul C. Hudgins, Research Biol., VAO; Jacksonville, Fla. (10923)

4564. Effect of Coramine on Alveolar Ventilation in Patients With Carbon Dioxide Narcosis.

William E. Ruth, M.D., Clin. Invest.; Charles E. Andrews, M.D., Ch. Med. Serv.; Kansas City, Mo. (4955)

4565. The Role of Airway Obstruction in the Pathogenesis of Pulmonary Emphysema.

Charles E. Andrews, M.D., Ch. Med. Serv.; William E. Ruth, M.D., Clin. Invest.; Kurt R. Reissmann, M.D., Cons. Med., VAH, Assoc. Prof. Med., Univ. Kansas Med. Cen.; Kansas City, Mo. (4956)

4566. Roentgenographic Study of Lipoid Pneumonitis in Chronically Ill Patients Due to Repeated Ingestion of Oily Substances.

L. C. Brandenstein, M.D., Ch. Radiol. Serv.; Kerrville, Tex. (10970)

4567. Long Term Followup of Patients with Coccidioidal Cavities.

Leroy Hyde, M.D., Ch. Pulm. Disease Serv.; Long Beach, Calif. (5242)

4568. Influence of Nitrogen Mustard on Disseminated Coccidioidomycosis.

N. B. Kurnick, M.D., Ch. Hemat. Sect.; E. A. Brosbe, Ph. D., Bact.; Long Beach, Calif. (5243)

4569. Effects of Nitrogen Mustard and Other Chemotherapeutic Agents in Disseminated Coccidioidomycosis.

N. B. Kurnick, M.D., Ch. Hemat. Sect.; E. A. Brosbe, Ph. D., Bact.; Long Beach, Calif. (5244)

4570. Studies of Intrapulmonary Mixing and Related Subjects.

Ellery C. Stowell, Ph. D., Biochem., VAH; Richard S. Cosby, Univ. of Southern California; Long Beach, Calif. (5246)

4571. Benign Non-Tuberculous Spontaneous Pneumothorax.

Leroy Hyde, M.D., Ch. Pulm. Disease Serv.; Long Beach, Calif. (5247)

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4572. Incidence of Peptic Ulcer in Pulmonary Emphysema.

William Escovitz, M.D., Phys. Pulm. Disease Serv.; Leroy Hyde, M.D., Ch. Pulm. Disease Serv.; Long Beach, Calif. (5250)

4573. Diffuse Pulmonary Fibrosis.

Leroy Hyde, M.D., Ch. Pulm. Dis. Serv.; Long Beach, Calif. (10780)

4574. Pulmonary Alveolar Proteinosis.

Coyt R. Payseur, M.D., Pulm. Dis. Serv.; Benjamin E. Konwaler, M.D., Ch. Lab. Serv.; Leroy Hyde, M.D., Ch. Pulm. Dis. Serv.; Long Beach, Calif. (10781)

4575. Coccidioidomycosis.

Leroy Hyde, M.D., Ch. Pulm. Dis. Serv.; Long Beach, Calif. (10782)

4576. Clinical Trial of Hydrochlorothiazide as a Diuretic.

L. Theodore Lawrence, M.D., Ch. Card. Sect.; Long Beach, Calif. (10783)

4577. Studies of Pulmonary Blood Volume.

A. A. Kattus, Jr., M.D., Attend. Spec. Card., VAC, Assoc. Prof. Med., Univ. of California at Los Angeles Med. Center; H. Mills, M.D., Attend. Phys., VAC, Asst. Clin. Prof. Med., Univ. of California at Los Angeles Med. Center; D. H. Simmons, M.D., Sect. Ch., VAC; Los Angeles, Calif. (5605)

4578. Pulmonary Disease Studies.

Daniel H. Simmons, M.D., Ph. D., Ch. Resp. Lab.; Joseph H. Miller, M.D., Resident Med., VAH; Leonard M. Linde, M.D., Asst. Prof. Pediat., Univ. of California at Los Angeles Med. Cent.; Los Angeles, Calif. (5650)

4579. Respiratory Factors in Rheumatoid Arthritis.

Daniel H. Simmons, M.D., Ph. D., Ch. Resp. Lab.; Frederick H. Kahn, M.D., Clin. Asst. Med.; Los Angeles, Calif. (5692)

4580. Investigation of the Effects of Chlorothiazide on Electrolyte and Acid Excretion in Various Edematous States.

D. H. Simmons, M.D., Sect. Ch.; M. Avedon, M.D., Sr. Resident Med.; Los Angeles, Calif. (5699)

4581. Acid-Base Influences on Gastric Acid Secretion.

Daniel H. Simmons, M.D., Sect. Ch. Med.; Los Angeles, Calif. (8849)

4582. The Evaluation of Idiopathic Lung Lesions.

Daniel N. Pickar, M.D., Asst. Ch. Med. Serv.; Louisville, Ky. (5467)

4583. Therapy of Friedlander's Pneumonia and Abscesses.

Daniel N. Pickar, M.D., Asst. Ch. Med.; Louisville, Ky. (5468)

4584. Pulmonary Function Studies in Chronic Pulmonary Diseases.

Daniel N. Pickar, M.D., Asst. Ch. Med. Serv.; J. R. Gott, Jr., M.D., Ch. Med. Serv.; Louisville, Ky. (5472)

4585. Serum Electrolytes, Gastric Secretion, Uropepsinogen and Pulmonary Function Studies in Pulmonary Emphysema.

J. R. Gott, Jr., M.D., Ch. Med. Serv.; D. N. Pickar, M.D., Asst. Ch. Med. Serv.; L. Y. Peskoe, M.D., Asst. Ch. GI; Louisville, Ky. (5482)

4586. RST Segment Elevation in Normal Patients.

Richard H. Wasserburger, M.D., Ch. Cardiovasc. Sect., VAH; William J. Alt, M.D., Resident Med., Univ. of Wisconsin; Madison, Wis. (5529)

4587. An Attempt to Simplify the Closed Circuit for Measurement of Lung Volumes by Helim Dilution.

Pierre Tulou, M.D., Ch. Pulm. Func Lab.; Martinsburg, W. Va. (5902)

4588. Simultaneous Recordings of Pneumotachograms, Spirograms, Carbon Dioxide Curves, Pressure Curves and Oximetric Curves.

Pierre Tulou, M.D., Ch. Pulm. Func. Lab.; Martinsburg, W. Va. (5903)

4589. Repeat Studies in Chronic Respiratory Dysfunction and Disease

Pierre Tulou, M.D., Ch. Pulm. Func. Lab.; Martinsburg, W. Va. (5904)

4590. Respiratory Physiology and Aging.

Pierre Tulou, M.D., Ch. Pulm. Func. Lab.; Martinsburg, W. Va. (5905)

4591. Ear Oximetry and Rapid Infra-Red Carbon Dioxide Studies at the Bedside.

Pierre Tulou, M.D., Ch. Pulm. Func. Lab.; Martinsburg, W. Va. (5906)

4592. Influence of Tranquilizers Upon the Work of Breathing.

Pierre Tulou, M.D., Ch. Pulm. Func. Lab.; Martinsburg, W. Va. (5907)

4593. Study of Cardiac Impairment in Bronchial Asthma.

Pierre Tulou, M.D., Ch. Pulm. Func. Lab., VAC; Halla Brown, M.D., Cons. Allergy, VAC, Assoc. Prof. Med., George Washington Univ. Sch. of Med.; Martinsburg, W. Va. (5908)

4594. Early Emphysema in Patients With Bronchial Asthma.

Pierre Tulou, M.D., Ch. Pulm. Func. Lab., VAC, Halla Brown, M.D., Cons. Allergy, VAC, Assoc. Prof. Med., George Washington Univ. Sch. of Med.; Martinsburg, W. Va. (5945)

4595. Result of Phlebotomies on Patients With Secondary Polycythemia.

John C. Larkin, M.D., Asst. Ch. Pulm. Dis. Serv.; Memphis, Tenn. (6018)

4596. Effect of Sodium Cyanide on Respiration.

Constantin Cope, M.D., Cancer Chemotherapy Research Assoc. Med. Serv.; Memphis, Tenn. (8767)

4597. Correlation of Simple Office Procedures with Laboratory Pulmonary Function Tests.

Glenn E. Horton, M.D., Asst. Ch. Non-TB Sect.; Memphis, Tenn. (8770)

4598. Serum Uric Acid in Patients with Chronic Pulmonary Disease as Compared to Normals.

Glenn E. Horton, M.D., Asst. Ch. Non-TB Sect.; Frank S. Schlenker, Ph. D., Dir. Biochem. Research Sect., Med. Research Lab.; Samuel Phillips, M.D., Ch. Pulm. Disease Serv.; W. Jeanne Crews, B.S., Tech. Biochem. Research Sect., Med. Research Lab.; Memphis, Tenn. (9021)

4599. Effect of Sodium Cyanide on Respiration.

Constantin Cope, M.D., Cancer Chemotherapy Research Assoc., Med. Serv.; Memphis Tenn. (10468)

4600. Correlation of Simple Office Procedures with Laboratory Pulmonary Function Tests.

Glenn E. Horton, M.D., Asst. Ch. Non-TB Sect.; Samuel Phillips, M.D., Ch. Pulm. Disease Sect.; Memphis, Tenn. (10469)

4601. Correlation of Chest Measurements and Breath Holding Time with Functional Tests of Pulmonary Ventilation.

Glenn E. Horton, M.D., Asst. Ch. Non-TB Sect., VAH; A. L. Drerup, M.D., Fellow Cardiopulm. Diseases, Univ. of Tennessee Coll. of Med.; Memphis, Tenn. (10470)

4602. Operative Treatment of Severe Complications of Pulmonary Resections.

Felix A. Hughes, M.D., Ch. Thoracic Surg. Sect.; Roger E. Campbell, M.D., Cancer Research Assoc., Surg. Serv.; Memphis, Tenn. (10482)

4603. Physical Medicine Procedures in the Treatment of Emphysema.

Bror S. Troedsson, M.D., Ch. PMR Serv.; Minneapolis, Minn. (6201)

4604. Mechanics of Ventilation in Bronchial Asthma and Pulmonary Fibrosis.

Frank M. MacDonald, M.D., Ch. Pulm. Dis. Serv.; Alfred Eichenholz, M.D., Asst. Ch. Pulm. Dis. Serv.; Minneapolis, Minn. (6290)

4605. Determination of Accuracy of Recording of Collins 13.6 Respirometer.

William W. Stead, M.D., Ch. Pulm. Disease Serv.; N. L. Gault, Jr., M.D., Staff Phys., Pulm. Disease Serv.; Herbert S. Wells, M.D., Asst. Dir. Prof. Serv. for Research; Minneapolis, Minn. (6291)

4606. Experimental Production of Emphysema.

Robert G. Rossing, M.D., Asst. Ch. Pulm. Disease Serv.; Minneapolis, Minn. (6294)

4607. Influence of Air, Temperature and Humidity on Ventilation Through Tracheostomy.

Alfred Fichenholz, M.D., Asst. Ch. Pulm. Dis. Serv.; Frank M. MacDonald, M.D., Ch. Pulm. Dis. Serv.; James P. Lillehei, M.D., Staff Phys., Pulm. Dis. Serv.; Minneapolis, Minn. (9845)

4608. Certain Radiological Aspects of Emphysema.

Joseph Jorgens, M.D., Ph. D., Ch. Radiol. Serv.; Minneaplis, Minn. (9846)

4609. All Glass Pump-Oxygenator Containing a Thermoregulator.

Frank Gollan, M.D., Asst. Dir. Prof. Serv. for Research; Nashville, Tenn. (5343)

4610. Histopathology of Dogs After Peripheral and Internal Cooling.

Frank Gollan, M.D., Asst. Dir. Prof. Serv. for Research; R. O. Christensen, M.D., Act. Ch. Clin. Lab.; Nashville, Tenn. (5344)

4611. Effect of Rapid Re-Expansion of a Completely Collapsed Lung Caused by an Artificial Pneumothorax in Rabbits.

R. I. Carlson, M.D., Ch. Surg. Serv.; H. H. Shoulders, Jr., M.D., Surg. Staff; W. G. Gobbel, Jr., M.D., Asst. Ch. Surg. Serv.; D. E. Sherman, M.D., Ch. Radiol.; Nashville, Tenn. (5349)

4612. Pulmonary Ventilation-Perfusion Relationships in the Dog as Measured by Ethyl Alcohol Exhalation.

Jerzy Dybicki, M.D., Phys. Research, VAH; Oscar J. Balchum, M.D., Instr. Med., Asst. Dir. Radioisotope Center, Vanderbilt Univ. Sch. of Med.; Joseph M. Merrill, M.D., Clin. Invest., Asst. Ch. RI Serv. VAH; George R. Meneely, M.D., Cons. RI Serv., VAH, Assoc. Prof. Med., Dir., Radioisotope Center, Vanderbilt Univ. Sch. of Med.; Nashville, Tenn. (9957)

4613. Effect of Acute Increases in Plasma Volume on Total Pulmonary Resistance.

Joseph M. Merrill, M.D., Clin. Invest., Asst. Ch. RI Serv.; Walter Puckett, M.D.; Nashville, Tenn. (9958)

4614. The Effect of Cortico-Steroids on Fibrinous Pneumonia in Guinea Pigs.

Robert A. Goodwin, Jr., M.D., Ch. TB Serv.; Nashville, Tenn. (9974)

4615. Pump-Oxygenator in Treatment of Experimental Pulmonary Edema.

Frank Gollan, M.D., Asst. Prof. Dir. Ser. for Research; David M. Regen, Tech., RI Serv.; Nashville, Tenn. (9975)

4616. An Analysis of Cardio-Pulmonary Pulses.

Paul O. Anderson, M.D., Sect. Ch. Pulm. Dis.; Philip Lipton, M.D., Ch. Med. Serv.; Newington, Conn. (6346)

4617. Determination of Lung Volumes.

Paul O. Anderson, M.D., Sect. Ch. Pulm. Dis.; Newington, Conn. (6347)

4618. Miliary Diseases of the Lungs.

Howard A. Buechner, M.D., Ch. Med. Serv., VAH; Morton M. Ziskind, M.D., Assoc. Prof. Med., Tulane Univ.; New Orleans, La. (6377)

4619. Construction of Models To Demonstrate Ingress and Egress of Air Through Simulated Bronchioles and Accompanying Air Spaces.

Charles P. Oderr, M.D., Ch. Radiol. Serv.; New Orleans, La. (6378)

4620. Microradiographic Survey of Lung Material Received at Autopsy.

Charles P. Oderr, M.D., Ch. Radiol. Serv.; New Orleans, La. (6379)

4621. Intrapulmonary Pressure Readings in Freshly Removed Human Lungs During Inflation and Deflation.

Charles P. Oderr, M.D., Ch. Radiol. Serv.; New Orleans, La. (6381)

4622. Microdissection of Air Sac Walls for Purposes of Photographing and Sectioning Fenestration Containing Sections of Walls.

Charles P. Oderr, M.D., Ch. Radiol. Serv.; New Orleans, La. (6382)

4623. A Clinical Study of Lung Abscess Treated by Non-Surgical Methods and Followed for Long Periods in Spite of Failure of Abscess Closure.

H. A. Buechner, M.D., Ch. Med. Serv.; Jordan Thompson, M.D., Ch. TB Sect.; New Orleans, La. (6391)

4624. Study of All Patients Seen at VA Hospital, New Orleans, La., with Parasitic Diseases of the Lung.

Howard A. Buechner, M.D., Ch. Med. Serv.; John P. Muhleisen, M.D., Ch. GI Serv.; New Orleans, La. (6398)

4625. Lungs of Infants, Children and Women With Respect to the Presence of Anatomical Emphysema.

Charles P. Oderr, M.D., Ch. Radiol. Serv.; New Orleans, La. (6403)

4626. Spectrographic Analysis of Soot in Human Lung as Compared With Fresh Soot.

Charles P. Oderr, M.D., Ch. Radiol. Serv.; New Orleans, La. (6404)

4627. Studies of Emphysema in Animals.

Charles P. Oderr, M.D., Ch. Radiol. Serv.; New Orleans, La. (6405)

4628. Normal and Abnormal Bronchiolar Sound Recordings with Amplifying Stethoscope.

Charles P. Oderr, M.D., Ch. Radiol. Serv.; New Orleans, La. (6406)

4629. X-ray Kynography of Diaphragmatic Motion During Three Second Test of Maximal Expiratory Effort.

C. P. Oderr, M.D., Ch. Radiol. Serv.; New Orleans, La. (6407)

4630. Vascular Complications of Bronchogenic Carcinoma.

Morton M. Ziskind, M.D., Assoc. Prof. Med., Tulane Univ.; Joseph Ziskind, M.D., Ch. Lab. Serv., VAH; Howard A. Buechner, M.D., Ch. Med. Serv.; New Orleans, La. (6419)

4631. The Clinical Course of the Pulmonary Interstitial Fibrosis of Obscure Etiology.

Robert P. Cameron, M.D., Clin. Invest.; Howard A. Bruechner, M.D., Ch. Med. Serv.; New Orleans, La. (6420)

4632. Direct Tension Measurement of the Arterial PCO_2.

Robert P. Cameron, M.D., Clin. Invest.; Rocco J. Tretola, B.S., Biochem. Med. Research Lab.; New Orleans, La. (6421)

4633. Physiologic Changes in the Lungs Following Open-Heart Surgery.

Robert P. Cameron, M.D., Clin. Invest., VAH; Oscar Creech, M.D., Prof. Surg., Tulane Univ.; Morton M. Ziskind, M.D., Assoc. Prof. Med., Tulane Univ.; Robert Schramel, M.D., Instr. Surg., Tulane Univ.; New Orleans, La. (6422)

4634. Pulmonary Compliance in Acute Chest Injuries.

Robert P. Cameron, M.D., Clin. Invest., VAH; Morton M. Ziskind, M.D., Assoc. Prof. Med., Tulane Univ.; Oscar Creech, M.D., Prof. Surg., Tulane Univ.; New Orleans, La. (6424)

4635. The Early Structural Changes Produced by Acute Lung Abscess.

Joseph Ziskind, M.D., Ch. Lab. Serv., VAH; Morton M. Ziskind, M.D., Assoc. Prof. Med., Tulane Univ.; New Orleans, La. (6427)

4636. Pulmonary Transcapillary Exchange and Extravascular Space Studies.

M. A. Rothschild, M.D., Ch. RI Serv.; M. Oratz, Ph. D., Asst. Ch. RI Serv., VAH; S. S. Schreiber, M.D., Attend. Intern. RI Serv., VAH, Clin. Instr. Med., New York Univ. Col. of Med.; New York, N.Y. (6566)

4637. Research in Pulmonary Function.

Sam Thal, M.D., Ch. Pulm. Func. Lab.; Virginia Spamer, Tech., Pulm. Func. Lab.; Oakland, Calif. (10189)

4638. Gastric Function in Emphysema.

James F. Hammarsten, M.D., Ch. Med. Serv.; Walter L. Honska, M.D., Ch. Resident Phys.; J. R. Lowell, M.D., Resident Phys.; Oklahoma City, Okla. (6869)

4639. Study to Determine if Abnormalities of the Muco-polysaccharides of Bronchial Mucous and Bronchial Tissues are Present in Various Disease States with Special Emphasis on the Findings in Pulmonary Emphysema.

Charles M. Harvey, M.D., Attend. TB, Instr. Med., Oklahoma Univ. Med. Sch.; Walter Joel, M.D., Path., VAH; Oklahoma City, Okla. (6909)

4640. An Attempt to Produce an Immune Disease in Lung.

Allen R. Hennes, M.D., Asst. Ch., Med. Serv.; James F. Hammarsten, M.D., Ch. Med. Serv.; Walter Joel, M.D., Path.; Margaret Moore, Tech.; Oklahoma City, Okla. (10042)

4641. Pulmonary Vascular Changes in Newborn Pups.

Gilbert S. Campbell, M.D., Ch. Surg. Serv.; William E. Jaques, M.D., Cons. Phys.; David D. Snyder, M.D., Resident Phys.; Oklahoma City, Okla. (10043)

4642. The Amylase, Lipid Phosphorous and Cholesterol of Pleural Fluid.

James F. Hammarsten, M.D., Ch. Med. Serv.; Crystal J. Jack, Tech.; Oklahoma City, Okla. (10044)

4643. Studies in Dynamic Bronchography Employing An Image Intensifier.

John E. Rayl, M.D., Asst. Ch. Surg. Serv.; Oteen, N.C. (6694)

4644. Investigation of Defomair (WINTHROP).

John E. Rayl, M.D., Asst. Ch. Surg. Serv.; Oteen, N.C. (6700)

4645. Study of Clinical Reactions Following Bronchography with Various Bronchographic Media.

John E. Rayl, M.D., Asst. Ch. Surg. Serv.; Oteen, N.C. (6701)

4646. Investigation of Lumopaque (WINN 8883-WINTHROP).

John E. Rayl, M.D., Asst. Ch. Surg. Serv.; Oteen, N.C. (6702)

4647. Randomized Study on Bronchial Closures.

Daniel E. Smith, M.D., Asst. Ch. Thoracic Surg. Sec.; Oteen, N.C. (6703)

4648. Relationship of Tracheobronchial Motor Activity to Bronchitis, Bronchiectasis, Emphysema, and to the Use of Bronchospastic and Spasmolytic Drugs.

John E. Rayl, M.D., Asst. Ch. Surg. Serv.; John T. Joyner, M.D., Phys. Med. Serv.; Oteen, N.C. (10214)

4649. A Study of Changes in Pulmonary Compliance and Residual Volume Before and After Major Pulmonary Resections.

Daniel E. Smith, M.D., Asst. Ch. Thoracic Surg. Sec.; Solomon M. Rauchwerger, M.D., Staff Card.; Oteen, N.C. (10215)

4650. Therapy of Patients with Chronic Pulmonary Insufficiency Using I-131.

Henry P. Close, M.D., Ch. Med. Serv.; Theodore Rodman, M.D., Staff Phys.; Philadelphia, Pa. (7098)

4651. The Evaluation of Airway Obstruction by Simple Ventilatory Studies.

Theodore Rodman, M.D., Staff Phys. Cardiopulm. Func. Lab.; Philadelphia, Pa. (7125)

4652. The Mechanics of Respiration in Mitral Stenosis.

Theodore Rodman, M.D., Staff Phys. Cardiopulm. Func. Lab.; Philadelphia, Pa. (7126)

4653. The Response to Respiratory Stimulants in Patients with Respiratory Acidosis.

Theodore Rodman, M.D., Staff Phys. Cardiopulm. Func. Lab.; Philadelphia, Pa. (7127)

4654. Lung Compliance in Sarcoidosis.

Theodore Rodman, M.D., Staff Phys.; Philadelphia, Pa. (7129)

4655. Pulmonary Acidosis.

Theodore Rodman, M.D., Staff Phys. Cardiopulm. Func. Lab.; Henry P. Close, M.D., Ch. Med. Serv.; Philadelphia, Pa. (8940)

4656. The Value of Physiotherapeutic Measures in the Management of Chronic Obstructive Pulmonary Emphysema.

Henry P. Close, M.D., Ch. Med. Serv.; R. A. Schlesinger, M.D., Ch. PMR Serv.; Theodore Rodman, M.D., Staff Phys. Cardiopulm. Func. Lab.; Philadelphia, Pa. (8946)

4657. Pulmonary Arteriovenous Shunting in Cirrhosis.

Bernard H. Pastor, M.D., Ch. Cardiovasc. Sect.; Henry P. Close, M.D., Ch. Med. Serv.; Melvin Sobel, M.D., Resident Med.; T. Rodman, M.D., Staff Phys., Cardiopulm. Func. Lab.; Philadelphia, Pa. (9947)

4658. Radiation Pneumonitis: A Clinical Roentgen Physiologic and Pathologic Study.

Theodore Rodman, M.D., Staff Phys., Cardiopulm. Func. Lab.; Arlyne T. Shockman, M.D., Asst. Ch. Radiol. Serv.; Henry P. Close, M.D., Ch. Med. Serv.; George T. Wohl, M.D., Ch. Radiol. Serv.; Philadelphia, Pa. (9948)

4659. The Incidence of Pulmonary Emphysema in a Population Group.

Roswell W. Phillips, M.D., Ch. Med. Serv.; John D. Eyre, M.D., Act. Ch. Med. Serv.; Bernard J. Mulligan, Bact.; Providence, R.I. (7169)

4660. Treatment of Respiratory Acidosis With a Potent Carbonic Anhydrase Inhibitor (Dichlorphenamide).

W. T. Thompson, M.D., Ch. Med. Serv.; David W. Richardson, M.D., Asst. Dir. Prof. Serv. for Research; Charles F. Wingo, M.D., Ch. Pulm. Lab.; Richmond, Va. (7198)

4661. Long Term Effectiveness of Dichlorphenamide in the Treatment of Chronic Pulmonary Emphysema.

Charlie F. Wingo, M.D., Ch. Pulm. Lab.; David W. Richardson, M.D., Asst. Dir. Prof. Serv. for Research; W. T. Thompson, Jr., M.D., Ch. Med. Serv.; Richmond, Va. (9919)

4662. Comparison of the Clinical and Physiological Changes in Pulmonary Emphysema Induced by Bronchodilator Drugs.

H. William Harris, M.D., Ch. Pulm. Disease Serv.; Jerome E. Cohn, M.D., Dir. Pulm. Func. Lab.; Salt Lake City, Utah. (7285)

4663. Evaluation of Physiological Abnormalities in Patients With a Variety of Chronic Pulmonary Disease.

Jerome E. Cohn, M.D., Dir. Pulm. Func. Lab.; H. William Harris, M.D., Ch. Pulm. Disease Serv.; Salt Lake City, Utah. (7295)

4664. Determination of Normal Standards for Pulmonary Function at 4,500 Feet Above Sea Level.

Jerome E. Cohn, M.D., Dir. Pulm. Func. Lab.; Salt Lake City, Utah. (7296)

4665. Characteristics of the Cardiopulmonary Abnormality in Obese Individuals With Polycythemia and Arterial Oxygen Unsaturation.

Jerome E. Cohn, M.D., Dir. Pulm. Func. Lab.; H. William Harris, M.D., Ch. Pulm. Disease Serv.; Salt Lake City, Utah. (7297)

4666. Comparison of the Helium and Nitrogen Washout Methods for the Determination of Total Lung Volumes in Normal Subjects and Patients With Pulmonary Diseases.

Jerome E. Cohn, M.D., Dir. Pulm. Func. Lab.; Salt Lake City, Utah. (7298)

4667. Mechanics of Breathing in Muscular Dystrophy.

Jerome E. Cohn, M.D., Dir. Pulm. Func. Lab.; Salt Lake City, Utah. (7299)

4668. Respiratory Studies in Pulmonary Hypertension.

Jerome E. Cohn, M.D., Dir., Pulm. Func. Lab.; Salt Lake City, Utah. (7300)

4669. Parkinsonism.

Jerome E. Cohn, M.D., Dir. Pulm. Func. Lab.; Salt Lake City, Utah. (10504)

4670. Patho-physiology of Pulmonary Disease, Correlative Study.

Jerome E. Cohn, M.D., Dir. Pulm. Func. Lab.; Terence H. Cochran, M.D., Ch. Lab. Serv.; Salt Lake City, Utah. (10521)

4671. The Effect of Intermittent Positive Pressure Breathing on Alveolar Ventilation in Pulmonary Emphysema.

Allan Hemingway, Ph. D., Cons., VAH, Prof. Dept. Phy., Sch. of Med., UCLA; Aaron A. Cohen, M.D., Ch. Pulm. Func. Lab.; San Fernando, Calif. (7394)

4672. Nitrogen Displacement From Lungs of Older Persons During Oxygen Breathing, Using Methods Previously Worked Out in a Study of Fifty Normal Medical Students

Aaron A. Cohen, M.D., Ch. Pulm. Func. Lab.; Allan Hemingway, Ph. D., Cons., VAH, Prof. Dept. Phy., Sch. of Med., Univ. of Calif. at Los Angeles; San Fernando, Calif. (7395)

4673. Study of Blood Oxygen, Blood CO_2 and Blood pH and Other Pulmonary Function Tests in Patients With Bronchogenic Carcinoma Before and After Treatment With Nitrogen Mustard or Pulmonary Resection.

Aaron A. Cohen, M.D., Ch. Pulm. Func. Lab., VAH; Allan Hemingway, Ph. D., Cons., VAH, Prof. Dept. Phys., Sch. Med., UCLA; David Salkin, M.D., Dir. Prof. Serv., VAH; San Fernando, Calif. (7414)

4674. Nitrogen Diffusion From Tissues to Lung During Oxygen Breathing in Normal Men.

Aaron A. Cohen, M.D., Ch. Pulm. Func. Lab.; Allan Hemingway, Ph. D., Cons., VAH, Prof. Dept. Phy., Sch. of Med., Univ. of California at Los Angeles; San Fernando, Calif. (10600)

4675. Alveolar Ventilation in Emphysematous Patients as Affected by Hyperventilation.

Aaron A. Cohen, M.D., Ch. Pulm. Func. Lab.; Allan Hemingway, Ph. D., Cons., VAH, Prof. Dept. Phy., Sch. of Med., Univ. of California at Los Angeles; San Fernando, Calif. (10601)

4676. The Optimum Time at Which To Determine Functional Residual Capacity in Emphysema Patients.

Aaron A. Cohen, M.D., Ch. Pulm. Func. Lab.; Allan Hemingway, Ph. D., Cons., VAH, Prof. Dept. Phy., Sch. of Med., Univ. of California at Los Angeles; San Fernando, Calif. (10602)

4677. The Effect of Body Respirator Ventilation on Tidal Volume and Alveolar Carbon Dioxide in Patients With Pulmonary Emphysema.

Aaron A. Cohen, M.D., Ch. Pulm. Func. Lab.; Allan Hemingway, Ph. D., Cons., VAH, Prof. Dept. Phy., Sch of Med., Univ. of California at Los Angeles; San Fernando, Calif. (10603)

4678. Cardiopulmonary Function.

Forrest M. Willett, M.D., Ch. Med. Serv., VAH; Arthur Selzer, M.D., Attend. VAH, Clin. Prof. Med., Stanford Univ. Sch. of Med.; Thomas V. Feichtmeir, M.D., Ch. Clin. Path. Serv., VAH; San Francisco, Calif. (7429)

4679. Serology Survey for Histoplasmosis.

Edmundo R. Figueras, M.D., Ch. TB Serv.; Maria Esther Belaval, M.T., Mycol. Med. Research Lab.; San Juan, P.R. (8974)

4680. Tracheal Substitution with Combined Prosthetics and Autogenous Grafts.

John W. Bell, M.D., Ch. Surg. Serv.; Seattle, Wash. (7641)

4681. Pulmonary Hemodynamics in Dogs; Electrical Analog Simulation of Radioisotope Dilution Data.

Daniel Hayden, Ph. D., Med. Student, Univ. of Washington Sch. of Med.; Daniel Parrish, B.S., Physicist, Asst. Ch. for Radiol. Safety and Adminis. Matters, VAH; Wayne Garrett, M.D., Clin. Invest.; Seattle, Wash. (7662)

4682. Ideal Lung Ventilation Kinetics in Women and Children.

Daniel Parrish, B.S., Physicist, Asst. Ch. for Radiol. Safety and Adminis. Matters; Rex L. Huff, M.D., Ch. RI Serv.; Seattle, Wash. (7667)

4683. Studies of Pulmonary Functions: (a) in Normal Men (b) in Men with Sarcoidosis and Chronic Pulmonary Tuberculosis and (c) in Men Prior to and Following Various Thoracic Surgical Procedures.

Attilio D. Renzetti, Jr., M.D., Ch. Chest Dis. Div.; Robert Dutton, M.D., Staff Phys.; Syracuse, N.Y. (7764)

4684. Behavior of Hypertrophied Heart Muscle.

Andrew Kerr, Jr., M.D., Asst. Ch. Med. Serv.; Syracuse, N.Y. (7769)

4685. A Study of Pulmonary Function in Individuals with Chronic Bronchitis.

Attilio D. Renzetti, Jr., M.D., Ch. Chest Disease Div.; Robert Dutton, M.D., Staff Phys.; Syracuse, N.Y. (7771)

4686. A Study of Etiology and Pathogenesis of Chronic Pulmonary Emphysema.

Attilio D. Renzetti, Jr., Ch. Chest Dis. Div.; J. Howland Auchincloss, Jr., M.D., Attend. Phys. Med.; Robert Dutton, M.D., Staff Phys.; Syracuse, N.Y. (7772)

4687. A Study of Pulmonary Function in Obesity.

Robert Gilber, M.D., Clin. Invest., VAH; J. Howland Auchincloss, Jr., M.D., Attend. Med., VAH, Assoc. Prof. Med., State Univ. New York Coll. Med.; John H. Sipple, M.D., Resident Med., State Univ. New York Coll. Med.; Syracuse, N.Y. (7785)

4688. A Study of the Changes in Pulmonary Function That Result From Thoracotomy Without Surgical Procedure on the Lung or Heart.

Robert Dutton, M.D., Staff Phys.; Attilio D. Renzetti, Jr., Ch. Chest Dis. Div.; Lloyd S. Rogers, Ch. Surg. Serv.; Syracuse, N.Y. (7795)

4689. A Study of Blood Ammonia in Chronic Pulmonary Emphysema.

Attilio D. Renzetti, Jr., M.D., Ch. Chest Disease Div., VAH; William Nicholas, M.D., Resident Med., State Univ. of New York Coll. of Med.; Syracuse, N.Y. (8725)

4690. The Effects of Bicarbonate Infusion on the Response to O_2 Inhalation in Patients With Acute Carbon Dioxide Retention.

Attilio D. Renzetti, Jr., M.D., Ch. Chest Dis. Div.; Syracuse, N.Y. (8937)

4691. Survey of 102 Patients With Bronchogenic Carcinoma at the Veterans Administration Hospital.

Peter F. Lansing, M.D., Ward Phys.; Togus, Maine. (10540)

4692. Blood Gas Studies.

Peter F. Lansing, M.D., Ward Phys.; Togus, Maine. (10541)

4693. Correlation of Intermittent Positive Pressure Breathing Therapy With Blood Gas Studies.

Peter F. Lansing, M.D., Ward Phys.; Togus, Maine. (10805)

4694. Pathologic Changes in Bronchial Arteries in Chronic Pulmonary Heart Disease.

R. S. Armstrong, M.D., Ch. Chem. Lab.; Tucson, Ariz. (7918)

4695. Cardiopulmonary Function Studies—Pre-operative and Post-operative and Relationship to Post-operative Respiratory Complications.

Rocco N. Tella, M.D., Ch. Anes. Sec., Surg. Serv.; Tucson, Ariz. (7922)

4696. Animal Research in the Problems of Bronchial Stump Closure and Tracheobronchial Prostheses.

Werner Brauer, M.D., Ch. Surg. Serv.; Paul H. Guilfoil, M.D., Asst. Ch. Surg. Serv.; Robert E. McCall, M.D., Staff Surg.; Wadsworth, Kan. (8567)

4697. Etiology of Sarcoidosis—Relation to Wood Products.

Martin M. Cummings, M.D., Dir. Research Serv., VACO; Paul C. Hudgins, Med. Biol., TB Research Lab., VAH; Robert A. Patnode, Ph. D., Ch. TB Research Lab., VAH; Washington, D.C. (7967)

4698. Study of Pine Pollen Antigen in Patients With Sarcoidosis.

Horace W. Bernton, M.D., Phys., Sarcoidosis; Paul Hudgins, Tech. TB Lab.; Washington, D.C. (7977)

4699. Study of Kveim Antigen.

Horace W. Bernton, M.D., Phys., Sarcoidosis; Paul Hudgins, Tech. TB Research; Washington, D.C. (7978)

4700. Epidemiologic and Laboratory Studies of Sarcoidosis.

Martin M. Cummings, M.D., Director, Research Serv., VACO; Paul C. Hudgins, Research Biol., VAH; Washington, D.C. (8865)

4701. Laboratory Investigations With Pine Pollen.

Robert A. Patnode, Ph. D., Super. Med. Bact.; Olha Holowecky, Biochem.; Washington, D.C. (10609)

4702. Tissue Culture Studies on Antigenic Relationship Between Pine Pollen and the Tubercle Bacillus.

Robert A. Patnode, Ph. D., Super. Med. Bact.; Dorothy H. Heilman, M.D., Med. Bact.; Washington, D.C. (10626)

4703. Cultivation of Sarcoid Granulomas *In Vitro*.

Martin M. Cummings, M.D., Dir. Research Serv., VACO; Horace W. Bernton, M.D., Contract Phys., VAH; Dorothy H. Heilman, M.D., Med. Bact.; Washington, D.C. (10627)

4704. Tissue Culture Studies on Delayed Allergy in Sarcoidosis.

Martin M. Cummings, M.D., Dir. Research Serv., VACO; Horace W. Bernton, M.D., Phys., VAH; Robert A. Patnode, Ph. D., Super. Med. Bact.; Dorothy H. Heilman, M.D., Med. Bact.; Washington, D.C. (10628)

4705. A Study of the Bacterial Flora in Chronic Pulmonary Disease.

Nicholas D'Esopo, M.D., Ch. Pulm. Dis. Serv.; Sidney Bernstein, Research Bact.; West Haven, Conn. (8089)

4706. An Experimental Project To Establish a Permanent Tracheotomy.

Carl J. May, M.D., Asst. Ch. Surg. Serv.; Woodrow W. Lindenmuth, M.D., Ch. Surg. Serv.; West Haven, Conn. (8102)

4707. Heart-lung apparatus.

Richard Warren, M.D., Ch. Surg. Serv.; West Roxbury, Mass. (11059)

4708. Effects on Pulmonary Function of Tracheotomy in Pulmonary Emphysema.

Joseph L. Grant, M.D., Ch. Med. Serv.; White River Junction, Vt. (8229)

4709. Hematologic Response to Emphysema.

Joseph L. Grant, M.D., Ch. Med. Serv.; White River Junction, Vt. (10683)

4710. Red Cell Changes in Emphysema.

Joseph L. Grant, M.D., Ch. Med. Serv.; Alastair Macdonald, Super. Med. Tech.; George H. Stueck, Jr., M.D., Asst. Dir. Prof. Serv. for Research; White River Junction, Vt. (10684)

4711. Acute Respiratory Infections in Emphysema.

Paul J. Lena, M.D., Senior Resident Med.; Joseph L. Grant, M.D., Ch. Med. Serv.; White River Junction, Vt. (10685)

4712. Effects of Kenacort on Pulmonary Emphysema (Pulmonary Disease Project).

Milton Kantor, M.D., Ch. Med. Serv.; Leo J. Corazza, M.D., Research Cons. Pulm. Func.; Felix Feraru, M.D., Chest Surg.; C. S. Morrow, M.D., Ch. Pulm. Dis. Sec.; Wilkes-Barre, Pa. (8764)

4713. Evaluation of a Simplified Helium Dilution Closed Circuit Method for Measurement of Functional Residual Capacity.

Alfred M. Steinman, M.D., Asst. Ch. Cardiopulm. Lab. Sec.; Ross C. Kory, M.D., Asst. Dir. Prof. Serv. for Research; Lyle H. Hamilton, Ph. D., Ch. Phy. Sec.; Wood, Wis. (8278)

4714. Evaluation of Spirometers for Pulmonary Function Testing.

Lyle H. Hamilton, Ph. D., Ch. Phy. Sec. Research Serv.; Ross C. Kory, M.D., Asst. Dir. Prof. Serv. for Research; Wood, Wis. (8289)

4715. Controlled Study of the Use of a Simple 1000 cc. Capacity Rebreathing Tube in the Prevention of Postoperative Atelectasis.

Joseph C. Darin, M.D., Resident Surg.; A. Stephen Close, M.D., Clin. Invest.; Wood, Wis. (9734)

4716. An Evaluation of the Histoplasmin-latex Agglutination Test for the Diagnosis of Histoplasmosis.

Marie L. Koch, Ph. D., Ch. Microbiol. Sec. Lab. Serv; Abraham Resnick, B.A., Tech., Bact. Sec. Lab. Serv.; Wood, Wis. (9758)

4717. Pulmonary Alveolar Proteinosis: Report of First Case Diagnosed in Wisconsin.

Harold D. Rose, M.D., Ch. Med. Chest Sec.; Francis B. Landis, M.D., Ch. TB Serv.; Richard O. Sternlieb, M.D., Med. Serv.; Wood, Wis. (9759)

4718. Application of Gas Chromatography to Respiratory and Blood Gas Measurements.

Lyle H. Hamilton, Ph. D., Ch. Phys. Sec. Research Serv.; Ross C. Kory, M.D., Asst. Dir. Prof. Serv. for Research; Wood, Wis. (9760)

4715. Controlled Study of the Use of a Single 1000 cc. Capacity Rebreathing Tube in the Prevention of Postoperative Atelectasis.

Joseph C. Jorgensen, M.D., Resident Surg.; A. Stephen Close, M.D., Clin. Invest.; Wood, Wis. (0750)

4716. An Evaluation of the Histoplasmin-Intradermal Test for the Diagnosis of Histoplasmosis.

Marvin L. Kock, Ph. D., Ch. Microbiol. Sec. Lab. Serv.; Abraham Rosenck, B.A., Tech. Bact. Sec. Lab. Serv.; Wood, Wis. (0750)

4717. Pulmonary Alveolar Proteinosis: Report of Four Cases Diagnosed in Wisconsin.

Harold D. Rose, M.D., Ch. Med. Chief Surg. Service; Louis B. Landis, M.D., Ch. TB Serv.; Rodney O. Strobelle, M.D., Med. Serv.; Wood, Wis. (0750)

4718. Application of Gas Chromatography to Respiratory and Blood Gas Measurements.

Lyle H. Hamilton, Ph. D., Ch. Phys. Chem. Research Serv.; Ross C. Scott, M.D., Asst. Dir. Res. Serv. for Research; Wood, Wis. (0750)

4719. Hemoglobin Response to Emphysema.

Joseph F. Grace, M.D., Ch. Med. Serv., White River Junction, Vt. (0220)

4720. Red Cell Changes in Emphysema.

Joseph F. Grace, M.D., Ch. Med. Serv.; Alfred Alexander, Super. Med. Tech.; George R. Jones, M.D., Asst. Dir. Prof. Serv. for Research; White River Junction, Vt. (0220)

4721. Acute Respiratory Infections in Emphysema.

Joseph F. Grace, M.D., Chief Medical Serv.; Joseph A. Gerardi, M.D., Ch. Med. Serv.; White River Junction, Vt. (0220)

4722. Effects of Exercise on Pulmonary Emphysema (Pulmonary Disease Project).

Milton Rabin, M.D., Ch. Med. Serv.; Lewis Lessler, M.D., Research Coord.; Edwin Finn, Exec. Asst.; Alfred Gerardi, M.D., Ch. Med. Serv.; Morton Mintz, M.D., Ch. Path.; Dir. Serv.; Wilkes-Barre, Pa. (0744)

4723. Evaluation of a Simplified Helmet Diluition Closed Circuit Method for Measurement of Ventilated Residual Capacity.

Alfred M. Spiegel, M.D., Asst. Ch. Hardingston Lab. Serv.; Rosalyn Rigler, M.D., Asst. Dir. Prof. Serv. for Research; Lyle H. Hamilton, Ph. D., Ch. Phys. Chem. Research; Wood, Wis. (0750)

4724. Evaluation of Symptomatic Pulmonary Function Testing.

Lyle H. Hamilton, Ph. D., Ch. Phys. Chem. Res. Research Serv.; Roger C. Ross, M.D., Asst. Dir. Med. Serv. for Research; Wood, Wis. (0750)

9. Digestive Tract Diseases

(a) Dental

4719. Design, Construction and Testing of an Improved Dental Pulp Tester.

Edmund C. Purdy, D.D.S., Staff Dent.; Albany, N.Y. (2000)

4720. Classification and Physical Properties of Plasticized Resin Dental Liners.

Edmund A. Travaglini, D.D.S., Resident Dent.; Ann Arbor, Mich. (2161)

4721. Evaluation of Ultra High Speed Unit for Dental and Oral Surgery Treatment of Hospitalized Patients. (Manufactured by Reputable Firms.)

Robert C. Ingram, D.D.S., Ch. Dent. Serv.; Atlanta, Ga. (8519)

4722. Clinical Study of the Use of Cuspating and Non-Cuspating Articulation of Posterior Denture Teeth.

Vincent R. Trapozzano, D.D.S., Cons. Prosthetic Dent.; John B. Lazzari, D.D.S., Ch. Dent. Serv.; Bay Pines, Fla. (2470)

4723. Comparison of Balanced and Non-Balance Occlusion in Denture Teeth.

Vincent R. Trapozzano, D.D.S., Cons. Prosthetic Dent.; John B. Lazzari, D.D.S., Ch. Dent. Serv.; Bay Pines, Fla. (2471)

4724. Comparison of Effectiveness of the Technical Procedures With Various Types of Prosthetic Articulators.

Vincent R. Trapozzano, D.D.S., Cons. Prosthetic Dent.; John B. Lazzari, D.D.S, Ch. Dent. Serv.; Bay Pines, Fla. (2472)

4725. Study of the Effects of Physical Changes Upon the Teeth *in situ* and Following Extraction.

Frederick A. Skinner, D.D.S., Dent. Serv.; John B. Lazzari, D.D.S., Ch. Dent. Serv.; Alfred H. Lawton, M.D., Ph. D., Sc. D., Ch. Gen. Research Lab.; Robert L. Davis, Sc. D., Biochem., Gen. Research Lab.; Bay Pines, Fla. (9319)

4726. The Sterilization of Dental Brushes and Instruments.

Frederick W. Kraus, M.D., D.M.D., Ch. Dent. Serv.; Bertie Pittman, M.S., Microbiol. Dent. Serv.; Birmingham, Ala. (2627)

4727. The Occurrence of Erythrocytes in Saliva.

Frederick W. Kraus, M.D., D.M.D., Ch. Dent. Serv.; William I. Perry, Research Asst. Dent. Serv.; Stitaya Sirisinha, Research Asst. Dent. Serv.; Birmingham, Ala. (2628)

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4728. Thiocyanate in Saliva.

Frederick W. Kraus, M.D., D.M.D., Ch. Dent. Serv., VAH; William I. Perry, B.S., Research Asst., Univ. of Alabama Med. Center; Donald G. Watson, B.S., Research Asst., Univ. of Alabama Med. Center; Bertie Pittman, M.S., Bact., VAH; Anna Bordenca, B. A., Research Asst., Univ. of Alabama Med. Center; Birmingham, Ala. (2630)

4729. Blood Culture Technique.

Frederick W. Kraus, M.D., Ch. Dent. Serv.; Birmingham, Ala. (9698)

4730. Diagnostic Yield of Superficial Dental Examinations.

Frederick W. Kraus, M.D., D.M.D., Ch. Dent. Serv.; Eva G. Downey, Dental Hygienist; Birmingham, Ala. (9700)

4731. Blood Antigens in Saliva.

Frederick W. Kraus, M.D., D.M.D., Ch. Dent. Serv., VAH; Stitaya Sirisinha, B.A., B.S., Research Asst., Univ. of Ala. Med. Cent.; Birmingham, Ala. (9701)

4732. Bacteremia Accompanying the Extraction of Teeth.

Frederick W. Kraus, M.D., D.M.D., Ch. Den. Serv.; Birmingham, Ala. (9702)

4733. Prosthetic Appliances in Head and Neck Surgery and Radiation.

Benjamin M. Hoffman, D.D.S., Dent.; Bronx, N.Y. (4491)

4734. Evaluation of Posterior Tooth Forms for Complete Dentures.

Max A. Pleasure, D.D.S., Ch. Dent. Serv.; Bronx, N.Y. (4496)

4735. Clinical Evaluation of Metabutoxycaine Hydrochloride, A Local Anesthetic Agent.

Max A. Pleasure, D.D.S., Ch. Dent. Serv.; Bronx, N.Y. (4498)

4736. Sporadic Verrucous Angionecrosis.

Amour F. Liber, M.D., Asst. Ch. Lab. Serv.; Bronx, N.Y. (4610)

4737. Construction of Dentures for Tbc. Patients.

Max A. Pleasure, D.D.S., Ch. Dent. Serv.; Benjamin S. Gordon, M.D., Ch. Lab. Serv.; Edith Duerr, Ph. D., Ch. Microbiol. Lab. Serv.; Milton Goldman, Med. Tech., Lab. Serv.; Bronx, N.Y. (10102)

4738. Synthetic Rubber Impression Material for Full Dentures.

Max A. Pleasure, D.D.S., Ch. Dent. Serv.; Bronx, N.Y. (10104)

4739. Palatal Obturators.

Benjamin M. Hoffman, D.D.S., Staff Dent.; Max A. Pleasure, D.D.S., Ch. Dent. Serv.; Bronx, N.Y. (10304)

4740. Histochemical Studies of Periodontal Tissues.

Henry C. Sandler, D.M.D., Ch. Dent. Serv., VAH; S. Sigmund Stahl, D.D.S., Attend., VAH, Asst. Prof. Periodont., New York Univ., Coll. of Dent.; Lester R. Cahn, D.D.S., Cons., VAH, Assoc. Prof. Oral Path., Coll. of Phys. & Surg., Columbia Univ., New York; Brooklyn, N.Y. (2925)

4741. Periodontal Disease Prevalence in Patients with Generalized Diseases.

Henry C. Sandler, D.M.D., Ch. Dent. Serv.; Brooklyn, N.Y. (2927)

4742. The Comparative Biochemistry of Calcification. I. Studies of the Endoskeleton of Limulus Polyphemus.

Philip Person, D.D.S., Ch. Spec. Dent. Research Prog.; Albert Fine, M.A., Biochem. Dent. Research Lab.; Brooklyn, N.Y. (2932)

4743. Comparative Studies of Calcification. II. Effects of Vitamins A and D on Endoskeletal Tissues of Limulus.

Philip Person, D.D.S., Ch. Spec. Dent. Research Prog.; Albert Fine, M.A., Biochem. Dent. Research Lab.; Brooklyn, N.Y. (2934)

4744. Cytochemical Studies of Oxidative Metabolism in Salivary Glands.

Philip Person, D.D.S., Ch. Spec. Dent. Research Prog.; Albert Fine, M.A., Biochem. Dent. Research Lab.; Sylvia Scapa, M.A., Biochem. Dent. Research Lab.; Brooklyn, N.Y. (2937)

4745. Cytochemical and Biochemical Studies of Oxidative Metabolism of Human Gingiva.

Philip Person, D.D.S., Ch. Spec. Dent. Research Prog.; S. Sigmund Stahl, D.D.S., Attend.; Sylvia Scapa, M.A., Biochem. Dent. Research Lab.; Brooklyn, N.Y. (2939)

4746. Metabolic Studies of Human Alveolar Bone Disease. I. Nitrogen Calcium and Phosphorous Balances.

Philip Person, D.D.S., Ch. Spec. Dent. Research Prog.; Brooklyn, N.Y. (2940)

4747. Diet Consistency and Periodontal Disease in Aged Rats.

Philip Person, D.D.S., Ph. D., Ch. Spec. Dent. Research Lab.; Brooklyn, N.Y. (10791)

4748. The Comparative Biochemistry of Calcification. III. Myoglobin in Marine Snail Cartilage.

Philip Person, D.D.S., Ph. D., Ch. Spec. Dent. Research Lab., VAH; James W. Lash, Ph. D., Fellow, Dept. Anat., Univ. of Pennsylvania Sch. of Med., Philadephia, Pa.; Albert Fine, M.A., Biochem., Spec. Dent. Research Lab., VAH; Brooklyn, N.Y. (10792)

4749. Survey on Tooth Shade for Various Complexion Groups.

Edward J. Mehringer, D.D.S. Dent.; Buffalo, N.Y. (3011)

4750. Recording the Jaw Relations as Determined by Mandibular Function.

Edward J. Mehringer, D.D.S., Dent.; Buffalo, N.Y. (3012)

4751. Anorganic Bone in Oral Surgery.

Sheldon W. Koepf, D.D.S., Oral Surg., Dent. Serv.; Buffalo, N.Y. (9342)

4752. A Study of Displacement, Compressibility and Distortion of Oral Tissues When Acted Upon by a Force Over an Artificial Appliance.

John J. Giglio, D.D.S., Staff Dent.; William P. Lace, D.D.S., Ch. Dent. Serv.; Castle Point, N.Y. (3591)

4753. Serum Electrophoresis in Liver Disease.

Roy J. Korn, M.D., Ch. Med. Serv.; Paul Heller, M.D., Asst. Dir. Prof. Serv. for Research, VAH; Hyman J. Zimmerman, M.D., Attend. Phys., VAH, Chm. Dept. Med.; Chicago Med. Sch.; Chicago (W.S.), Ill. (3746)

4754. The Effects of Various Filling Materials and Medicaments on Dental Pulp Tissue.

Maury Massler, D.D.S., Prof. Pedodontics, Univ. of Illinois Coll. of Med.; Theodore Siegel, D.D.S., Dent. Serv., VAH; Chicago (W.S.), Ill. (3773)

4755. Vertical Dimension Increase of Acrylic Dentures.

William E. Mowery, D.M.D., Ch. Cent. Dent. Lab.; Chicago (W.S.), Ill. (3775)

4756. Clinical Investigation of the Drug Quiactin.

H. H. Niebel, D.D.S., Ch. Inpatient Dent. Serv.; M. Williams, Ph. D., Ch. Clin. Psychol. Sect.; Chicago (W.S.), Ill. (8535)

4757. Early Detection of Oral Cancer.

Harold H. Niebel, D.D.S., Ch. Inpatient Dent. Serv.; Bernard Chomet, M.D., Ch. Lab. Serv.; Chicago (W.S.), Ill. (9393)

4758. Microbiologic Hazards of Local Dental Anesthesia, III. Bacteremia Studies in Injection Technics.

Richard A. Williams, D.D.S., Ch. Dent. Serv.; Doran D. Zinner, D.D.S., Research Asst. Prof., Dept. Microbiol., Univ. Miami; Coral Gables, Fla. (8872)

4759. A Project to Determine and Evaluate the Properties of a New Denture Base Material, Epoxelon.

E. C. Claus, D.D.S., Ch. Dent. Serv.; F. R. Coughlin, D.D.S., Super. Dent. Lab.; O. Flaherty, Dent. Tech.; Denver, Colo. (9458)

4760. Periodontosis and Post-Menopausal Osteoporosis.

H. Elrick, M.D., Ch. Research Lab. and RI Serv., VAH; F. Metz, M.D., D.D.S., Practicing Phys. and Dent.; D. H. Mitchel, M.D., Practicing Phys.; R. E. Dudley, D.D.S., Practicing Phys.; W. H. Hiatt, D.D.S., Practicing Dent.; Denver, Colo. (9459)

4761. Study of Keratotic Lesions of Oral Cavity.

John B. Morrissey, D.D.S., Ch. Dent. Serv.; Raphael Shelton, D.D.S., Staff Dent.; Joseph J. C. Thomson, D.D.S., Staff Dent.; Joseph E. Belott, D.D.S., Staff Dent.; Stanley Solomon, D.D.S., Staff Dent.; Edward V. Zegarelli, D.D.S., Cons. Oral Diag.; East Orange, N.J. (4033)

4762. The Clinical Effectiveness of Oral Exfoliative Cytology.

John B. Morrissey, D.D.S., Ch. Dent. Serv.; R. Shelton, D.D.S., Asst. Ch. Dent. Serv.; Joseph J. C. Thomson, D.D.S., Staff Dent.; Joseph E. Belott, D.D.S., Staff Dent.; Stanley Solomon, D.D.S., Staff Dent.; East Orange, N.J. (8621)

4763. Effects of Liners and Bases Placed Under Amalgam Fillings.

Harold L. Dute, D.D.S., Ch. Dent. Serv.; Ervin Kaplan, M.D., Act. Assoc. Dir. RI Serv.; Maury Massler, D.D.S., Cons. Dent. Serv., VAH, Prof. and Head, Dept. of Pedodontics, Univ. of Illinois Coll. of Dent.; Robert E. Going, D.D.S., Dent. Serv., Univ. of Illinois Coll. of Dent.; Thaddeus I. Kanabrocki, Dent. Tech., VAH; Hines, Ill. (4177)

4764. Permeability and Chemical Reactivity of Various Filling Materials to Different Radioisotopes.

Harold L. Dute, D.D.S., Ch. Dent. Serv.; Ervin Kaplan, M.D., Act. Assoc. Dir. RI Serv., VAH; Maury Massler, D.D.S., Con. Dent. Serv., VAH, Prof. and Head, Dept. of Pedodontics, Univ. of Illinois Coll. of Dent.; Robert E. Going, D.D.S., Dent., Univ. of Illinois Coll. of Dent.; Thaddeus I. Kanabrocki, Dent. Tech., VAH; Hines, Ill. (4178)

4765. Permeability of Abraded Dentin to Various Isotopes.

Harold L. Dute, D.D.S., Ch. Dent. Serv.; Ervin Kaplan, M.D., Act. Assoc. Dir. RI Serv., VAH; Maury Massler, D.D.S., Cons. Dent. Serv., VAH, Chm. and Head Dept. of Pedodontics, Univ. of Illinois Coll. of Dent.; Clement R. Jasiek, D.D.S., Dent. Tech., VAH; Hines, Ill. (10361)

4766. Permeability of Active and Arrested Carious Lesions in Enamel and Dentin to Various Isotopes.

Harold L. Dute, D.D.S., Ch. Dent. Serv.; Ervin Kaplan, M.D., Act. Assoc. Dir. RI Serv., VAH; Maury Massler, D.D.S., Cons. Dent. Serv., VAH, Chm. and Head Dept. of Pedodontics, Univ. of Illinois Coll. of Dent.; Clement R. Jasiek, D.D.S., Dent. Tech., VAH; Hines, Ill. (10362)

4767. Permeability of Active and Arrested Erosive Dental Lesions to Various Isotopes.

Harold L. Dute, D.D.S., Ch. Dent. Serv.; Ervin Kaplan, M.D., Act. Assoc. Dir. RI Serv., VAH; Maury Massler, D.D.S., Cons. Dent. Serv., VAH, Chm. and Head Dept. of Pedodontics, Univ. of Illinois Coll. of Dent.; Clement R. Jasiek, D.D.S., Dent. Tech., VAH; Hines, Ill. (10363)

4768. Effect of Temperature on Penetration of I^{131} into Tooth Structures.

Harold L. Dute, D.D.S., Ch. Dent. Serv.; Ervin Kaplan, M.D., Act. Assoc. Dir. RI Serv., VAH; Maury Massler, D.D.S., Cons. Dent. Serv., VAH, Chm. and Head Dept. of Pedodontics, Univ. of Illinois Coll. of Dent.; Clement R. Jasiek, D.D.S., Dent. Tech., VAH; Hines, Ill. (10364)

4769. A Standard for Estimation of Exposure Time in Radioautography of Tooth Slabs Immersed in Various Isotopes.

Harold L. Dute, D.D.S., Ch. Dent. Serv.; Ervin Kaplan, M.D., Act. Assoc. Dir. RI Serv., VAH; Maury Massler, D.D.S., Cons. Dent. Serv., VAH, Chm. and Head Dept. of Pedodontics, Univ. of Illinois Coll. of Dent.; Clement R. Jasiek, D.D.S., Dent. Tech., VAH; Hines, Ill. (10365)

4770. Personality Factors Associated With Adjustment to Full Dentures.

Sidney E. Cleveland, Ph. D., Asst. Ch. Psychol. Serv.; Hugh D. Killmer, D.D.S., Ch. Dent. Serv.; Houston, Tex. (4434)

4771. Clinical Evaluation of Compound WY-401.

Edward C. Hinds, D.D.S., Cons., VAH, Prof. Oral Surg., Univ. of Texas Dent. Branch; Edward J. Degnan, D.D.S., Act. Asst. Ch. Dent. Serv., VAH; A. H. Sills, Jr., D.D.S.; Houston, Tex. (4445)

4772. Novobiocin as Related to Oral Surgery in Infections and Trauma.

Ashley H. Sills, Jr., D.D.S., Staff Oral Surg.; Houston, Tex. (4447)

4773. Evaluation of the Mandibular Subperiosteal Implant Dentures.

Hugh D. Killmer, D.D.S., Ch. Dent. Serv.; Ashley H. Sills, Jr., D.D.S., Staff Oral Surg.; Houston, Tex. (8785)

4774. Radiographic Evaluation of Temporomandibular Joint Disease.

Heyl G. Tebo, D.D.S., Asst. Ch. Dent Serv.; Hugh D. Killmer, D.D.S., Ch. Dent. Serv.; Houston, Tex. (8960)

4775. Replacement of the Alveolar Ridge with Homologous Aortic Graft.

Charles W. Newman, D.D.S., Ch. Dent. Serv.; Indianapolis, Ind. (4759)

4776. A Clinical Study of Dental Prosthesis.

Walter F. Uzdawinis, D.D.S., Staff Dent.; Frank Hughes, D.D.S., Prof. Prosthetics; Indianapolis, Ind. (9131)

4777. Clinico-Pathologic Study of White Lesions of the Oral Mucous Membranes.

Ernest E. Rosenbarger, D.D.S., Staff Dent.; William G. Shafer, D.D.S., M.S., Ch. Dept. Oral Path.; Indianapolis, Ind. (9132)

4778. Magnetic Implants for Stabilization of Mandibular Full Dentures.

Duane W. Lovett, D.D.S., Ch. Dent. Serv., VAH; Merle L. Hale, D.D.S., Cons. VAH, Head Dept. Oral Surg., State Univ. of Iowa College of Dent., Iowa City; Strode Hinds, D.D.S., Asst. Prof. Oral Surg., State Univ. of Iowa College of Dent.; Iowa City, Iowa. (4890)

4779. Examination of Gingival Tissue for Amyloids.

Duane W. Lovett, D.D.S., Ch. Dent. Serv.; Kenneth R. Cross, M.D., Act. Ch. Lab. Serv.; Maurice W. Van Allen, M.D., Ch. Neur. Sec.; Iowa City, Iowa. (4891)

4780. Partial Mandibulectomy with Disarticulation and Metal Pin Replacement of Removed Mandible Segment.

Duane W. Lovett, D.D.S., Ch. Dent. Serv.; Edgar S. Brintnall, M.D., Ch. Surg. Serv.; Iowa City, Iowa. (4982)

4781. Biological and Physical Effects of Dental Fillings.

J. B. Taylor, D.D.S., Ch. Dent. Serv.; Ellery C. Stowell, Jr., Ph. D., Biochem., VAH; W. W. Wainwright, D.D.S., Cons., VAH, Staff, Dent. Research Lab., Inc.; Long Beach, Calif. (5267)

4782. Evaluation of Aristocort (Triamcinolone Diacetate) in the Management of Intractable Ascites Due to Liver Cirrhosis.

S. J. Stempien, M.D., Ch. GI Sect.; Long Beach, Calif. (8411)

4783. Evaluation of Gastric Juice Lactic Acid Dehydrogenase as a Tool in the Diagnosis of Gastric Disease.

Sherwin S. Zeid, M.D., Staff, GI Sec.; S. J. Stempien, M.D., Ch. GI Sec.; Herbert O. Carne, Biochem., Lab. Serv.; Long Beach, Calif. (8417)

4784. The Hypoglycemic Action of Tolbutamide (Orinase) in Diabetics.

F. W. S. Modern, M.D., Ch. PMR Serv.; J. R. Goodman, Ph. D., Biochem.; Long Beach, Calif. (8420)

4785. Cephalometry and Laminagraphy in Relation to Gerontology and Dental Prosthetics.

Wilson W. Chase, D.D.S., Ch. Prosthetics Sec., Dent. Serv.; Robert M. Richetts, D.D.S., Cons., Dent. Serv.; Los Angeles, Calif. (9175)

4786. An Evaluation of Methods Used To Record the Vertical Relationship of the Mandible to the Maxilla.

Frank L. Basler, D.D.S., Operative Sec., Dent. Serv.; Robert S. Moulton, D.D.C., Career Pros. Resident, Dent. Serv.; James R. D.D.S., Pros. Sec., Dent. Serv.; Memphis, Tenn. (10466)

4787. Replantation and Cross Plantation of Teeth in the Dog.

Martin I. Ames, D.D.S., Oral Surg. Sec., Dent. Serv.; Robert T. Holt, D.D.S., Ch. Dent. Serv., VAH; Milton Siskin, D.D.S., Cons. Dent. Serv., VAH, Prof. Univ. of Tennessee Med. Sch.; Memphis, Tenn. (10467)

4788. Evaluation of the Suppressive Effects of Small Doses of Corticosteroids and Corticosteroids Plus Antihistamines on the Undesirable Postoperative Sequelae of Oral Surgery Procedures in Dental Patients.

Irwin W. Scopp, D.D.S., Ch. Dent. Serv.; Harry Fredrics, D.D.S., Staff Oral Surg. Dent. Serv., VAH; William F. Harrigan, M.D., D.D.S., Cons. Oral Surg., VAH, Prof. Oral Surg., New York Univ. Coll. of Dent.; New York, N.Y. (6555)

4789. Evaluation of: Neosporin (Polymyxin B—Bacitracin—Neomycin) Antibiotic Ointment, Powder. Cortisporin Brand—Polymyxin B—Bacitracin—Neomycin with Hydrocortisone, 1% Ointment, Powder.

I. W. Scopp, D.D.S., Ch. Dent. Serv., VAH; H. Fredrics, D.D.S., Oral Surg., Instr. Dept. Oral Surg., New York Univ. Coll. of Dent.; H. William Sippel, D.D.S., Resident Oral Surg., VAH; Jerome D. Anderson, D.D.S., Intern Oral Surg.; New York, N.Y. (11024)

4790. An Evaluation of "Surgical" as an Absorbable Coagulant in Oral Surgical Procedures.

I. W. Scopp, D.D.S., Ch. Dent. Serv.; H. Fredrics, D.D.S., Oral Surg.; H. William Sippel, D.D.S. Resident, Oral Surg.; Jerome D. Anderson, D.D.S. Intern, Oral Surg.; New York, N.Y. (11026)

4791. Clinical Effectiveness of Oral Exfoliative Cytology.

E. C. Kettner, D.D.S., Ch. Dent. Serv.; Martin Winter, D.D.S.; David Berliner, D.D.S.; Northport, N.Y. (8714)

4792. Investigation of Dental Anxiety in Schizophrenics.

E. C. Kettner, D.D.S., Ch. Dent. Serv.; Melvyn Katz, Ph. D., Clin. Psychol. Northport, N.Y. (10203)

4793. Study of the Etiology of Bruxism.

Paul Kornfeld, D.D.S., Dent.; Max Cooper, Ph. D., Ch. Clin. Psychol. Serv.; Northport, N.Y. (10204)

4794. The Relation Between the Breakdown of the Alveolar Bone in Periodental Conditions and Other Manifestations Which Can Be Directly Related to This Breakdown.

Andrew Kuna, Ph. D., Biochem.; Ernest Kraft, M.D., Ch. Radiol. Serv.; Harold P. Rose, D.M.D., Dent.; Northport, N.Y. (10205)

4795. The Fatty Liver: A Clinical and Pathological Study.

Bernard M. Lipschultz, M.D., Ch. Med. Serv.; Phoenix, Ariz. (10633)

4796. Determination of the Feasibility and Practicality of Oral Prostheses for NP Geriatric Patients.

S. L. Orlean, D.D.S., Dent. Serv.; M.B. Jensen, Ph. D., Ch. Psychol. Serv.; Salisbury, N.C. (7392)

4797. An Oral Hygiene Program for Long-Term Patients.

Sidney H. Bleicher, D.D.S., Ch. Dent. Serv.; Tuscaloosa, Ala. (10679)

4798. Determination of the Concentration of Mast Cells in Clinically Normal and Clinically Hyperplastic Gingivae.

Clifton O. Dummett, D.D.S., Ch. Dent. Serv., VAH; T. E. Bolden, D.D.S., Ph. D., Dept. Oral Path., Seton Hall Dent. Sch., Jersey City, N.J.; S. Goldsberry, M.S., Sch. of Veterinary Med., Tuskegee Inst.; Tuskegee, Ala. (7933)

4799. Oral Pigmentation-Physiologic and Pathologic.

C. O. Dummett, D.D.S., Ch. Dent. Serv.; Tuskegee, Ala. (10657)

4800. The Oral Tissues in Albinism.

C. O. Dummett, D.D.S., Ch. Dent. Serv.; Tuskegee, Ala. (10658)

4801. Post-Gingivectomy Repigmentation.

C. O. Dummett, D.D.S., Ch. Dent. Serv.; K. M. Massey, D.D.S., Dent. Interne; Tuskegee, Ala. (10659)

4802. The Oral Tissues in Vitiligo.

C. O. Dummett, D.D.S., Ch. Dent. Serv.; Tuskegee, Ala. (10660)

4803. Observations on Alveolar Bone Status in 120 Negro Diabetics.

K. M. Massey, D.D.S., Dent. Inter.; C. O. Dummett, D.D.S., Ch. Dent. Serv.; Tuskegee, Ala. (10661)

4804. Electromyographic Studies of the Temporal and Masseter Muscles in Edentulous Patients.

Dayton D. Krajicek, D.D.S., Ch. Dent. Serv.; Stanley F. Radzyminski, M.D., Ch. PMR, VAC, Wadsworth, Kans.; Philip M. Jones, D.D.S., Dir. Dept. Prosthodontics, Univ. of Kansas City Sch of Dent.; Donald L. Rose, M.D., Chm. Dept. Phys. Med., Univ. of Kansas Med. Center, Kansas City, Mo. (8046)

4805. A Study of Resilient Denture Base Materials for Edentulous Aged Patients Exhibiting Marked Senile Atrophy.

Dayton D. Krajicek, D.D.S., Ch. Dent. Serv.; Eugene Unti, D.D.S., Career Resident, Prosthodontia; Robert W. Eilers, D.D.S., Clin. Dent., VAC; Philip M. Jones, D.D.S., Dir. Dept. Prosthodontics, Univ. Kansas City School Dent.; Wadsworth, Kans. (8396)

4806. The Dupli-Functional Articulator.

Edwin F. Irish, D.D.S., Staff Dent.; Washington, D.C. (7983)

4807. A Comparative Study of Standard Ulcer Therapy with Modified Ulcer Program with and without Dietary Supplements Utilizing Unsaturated Fatty Acids.

R. E. Clancy, M.D., Asst. Ch. Med. Serv.; T. A. Warthin, M.D., Ch. Med. Serv.; S. Hashim, M.D., Cons.; B. E. Cooney, Research Diet.; West Roxbury, Mass. (8168)

4808. Histo-pathological Reaction of Bone to Surgical Cutting.

Richard W. Moss, D.D.S., Dent. Oral Surg.; Wood, Wis. (8312)

4809. Tissue-Bearing Surface Changes and Correlated Properties of Full Dentures.

Gunnar Ryge, D.D.S., M.S., Research Cons., Dent. Serv., VAC, Prof. Chm. Dept. Dent. Materials, Marquette; Lawrence W. Gabert, D.D.S., Asst. Ch. Dent. Serv. VAC; Carl W. Fairhurst, M.S., Asst. Prof. Dent. Materials, Marquette; Daniel H. Gehl, D.D.S., Cons. Prosthetic Sec., Prof. and Chm. Dept. Dent. Prosthetics, Marquette; Wood, Wis. (8313)

4810. Long-term Evaluation of Anorganic Heterogenous Bone in the Treatment of Oral Bony Defects in Man.

Richard W. Moss, D.D.S., Dent. Oral Surg.; Wood, Wis. (8314)

(b) Other digestive tract diseases (medical)

4811. Anatomical Studies in Human Liver Both Normal and Cirrhotic.

J. H. Carter, M.D., Resident Gen. Surg., Albany Hosp.; R. E. Barron, M.D., Resident Gen. Surg., VAH; C. Stuart Welch, M.D., Prof. Surg., Albany Med Center and Cons., VAH; Albany, N.Y. (2018)

4812. Evaluation of Antispasmotic Drug (BL–700B) in Gastrointestinal Diseases.

Robert J. Bolt, M.D., Assoc. Prof. Inter. Med., Univ. of Michigan; Ann Arbor, Mich. (10236)

4813. Clinical Evaluation of the Effect of Arginine in the Treatment of Hepatic Coma.

Julius Wenger, M.D., Asst. Ch. Med. Serv.; Atlanta, Ga. (2237)

4814. Evaluation of a New Anticholinergic Drug (Pfizer S1–1236) for the Treatment of Peptic Ulcer.

Julius Wenger, M.D., Asst. Ch. Med. Serv., VAH; Ivan A. Backerman, A.B., Clin. Clerk Med., Emory Univ.; Atlanta, Ga. (2244)

4815. Estimation of Portal Pressure by Rectal Capillaroscopy.

Julius Wenger, M.D., Asst. Ch. Med. Serv.; Atlanta, Ga. (2245)

4816. Evaluation of Serum Trypsin Determination in Acute and Chronic Pancreatitis.

Julius Wenger, M.D., Asst. Ch. Med. Serv.; Atlanta, Ga. (2246)

4817. Investigation of the Hormone Cholecystokinin as an Aid to More Frequent and Definitive Demonstration of the Biliary Duct System in Oral Cholangiography.

Martin Bronson, M.D., Asst. Ch. Radiol. Serv.; Atlanta, Ga. (2247)

4818. Quantitative Studies of Absorption in the Small Intestine of Human Subjects: The Absorption of I^{131} Triolein as a Clinical Test for Malabsorption.

Julius Wenger, M.D., Asst. Ch. Med. Serv.; Arthur F. Dratz, Ph. D., Asst. Ch. RI Serv.; Atlanta, Ga. (2273)

4819. Plasma I^{131} Concentrations After Oral Administration of I^{131}-Labeled Albumin.

James C. Coberly, M.D., Ch. RI Serv.; Barbara M. Covey, B.S., Biochem., RI Serv.; Atlanta, Ga. (2280)

4820. Evaluation of an Anti-Ulcer Drug (Johnson & Johnson JJ-254) for the Treatment of Peptic Ulcer.

Julius Wenger, M.D., Asst. Ch. Med. Serv.; Atlanta, Ga. (8524)

4821. Diet in Peptic Ulcer.

Joseph G. Bohorfoush, M.D., Ch. Med. Serv.; Joseph Lozner, M.D., Asst. Ch. Med. Serv.; Enon C. Hopkins, M.D., Phys. Med. Serv.; Augusta, Ga. (2290)

4822. The Effect of Various Drugs on Gastric Secretions.

L. Fernandez, Jr., M.D., Phys. Med. Serv.; J. G. Bohorfoush, M.D., Ch. Med. Serv.; Augusta, Ga. (2293)

4823. Intraglobulin Spectrum Analysis.

William A. Jarrett, M.D., Cons.; John E. Horn, M.D., Ward Phys. Med. Serv.; Bath, N.Y. (8636)

4824. Comparison of Electrophoretic Pattern in Patients with Hepatitis, Cirrhosis, and Other Liver Diseases.

John T. Lane, M.D., Ch. Med. Serv.; L. J. Audioun, M.D., Inter. Med. Serv.; Biloxi (Biloxi Div.), Miss. (2511)

4825. Evaluation of Tests Commonly Used to Detect Small Quantities of Blood in Feces.

L. J. Audioun, M.D., Intern. Med. Serv.; John T. Lane, M.D., Ch. Med. Serv.; Biloxi (Biloxi Div.), Miss. (2513)

4826. Peptic Ulcer in Association with Pulmonary Emphysema.

L. J. Audioun, M.D., Intern. Med. Serv.; John T. Lane, M.D., Ch. Med. Serv.; Biloxi (Biloxi Div.), Miss. (2514)

4827. Evaluation of Anticholinergic Drugs.

Julius Wolf, M.D., Ch. Med.; Bronx, N.Y. (4507)

4828. The Use of Sodium Glutamate in the Treatment of Hepatic Coma.

John Swadey, M.D., Sec. Ch. Med. Sec.; Robert Gomprecht, M.D., Asst. Ch. Card. Sec.; Bronx, N.Y. (4514)

4829. The Treatment of Hepatic Coma.

Julius Wolf, M.D., Ch. Med. Serv.; John Swadey, M.D., Ch. Med. Sec. "B," Med. Serv.; Bronx, N.Y. (4520)

4830. Measurement of Gastric Motility.

Julius Wolf, M.D., Ch. Med. Serv.; Gabriel Neumann, M.D., Ch. Resident; Bronx, N.Y. (4546)

4831. The Use of Small Magnets to Locate the Tips of Tubes in the Gastro-Intestinal Tract Without Fluoroscopy.

Sidney Fink, M.D., Resident Med.; Bronx, N.Y. (4564)

4832. Continuation of Studies on Gastro Physiology With Particular Reference to the Patient With Peptic Ulcer.

P. Cooper, M.D.; Bronx, N.Y. (4684)

4833. Marsilid Hepatitis: A Case Report and Review of the Literature.

Arthur Felix, M.D., Ch. Resident, Montefiore Hosp.; Ernest Schwartz, M.D., Ch. Metab. Unit, VAH; Bronx, N.Y. (8663)

4834. Leiomyosarcoma of Gall Bladder With Review of Literature.

Dr. C. Gaulin, Resident Path.; Dr. D. Pearlman, Resident Surg.; Bronx, N.Y. (8664)

4835. Correlation of Gastric and Jejunal Biopsies With Electrophoretic Studies of Gastric Juices in Aging Patients.

Julius Wolf, M.D., Ch. Med. Serv.; Asst. Dir. Prof. Serv. for Research; Bernard Klein, Ph. D., Ch. Chem. Sec., Lab. Serv.; Benjamin Gordon, M.D., Ch. Lab. Serv.; Bronx, N.Y. (9053)

4836. Percutaneous Liver Biopsy With the Menghini Needle.

Herman Black, M.D., Ch., Med. Sec., VAH; Fenton Schaffner, M.D., Attend. Med. Serv., VAH, Research Assoc., GI, Mt. Sinai Hospital, N.Y.; Albert D. Parets, M.D., Asst. Attend. Phys., Dept. Med., Mt. Sinai Hosp., N.Y.; Bronx, N.Y. (9215)

4837. Cervical Retro-Esophageal Impression.

Theresa L. Siebert, M.D., form. Asst. Ch. Radiol. Serv.; Joseph Stein, M.D., Ch. Radiol. Serv., VAH; Maxwell H. Poppel, M.D., Cons. Diag. Radiol., VAH, Prof. & Chm., Dept. Radiol., NYU Bellevue Medical Center; Bronx, N.Y. (10105)

4838. Five Year Follow-Up of Patients With Lesser Curvature Gastric Ulcer.

S. Harvey, M.D.; Julius Wolf, M.D., Ch. Med.; Bronx, N.Y. (10106)

4839. Five Year Follow-Up of Hepatitis Problem.

Julius Wolf, M.D., Ch. Med. Serv.; Edward Grossman, M.D., Asst. Ch. Med. Serv.; Bronx, N.Y. (10131)

4840. Investigations of Glycosteroids on Liver Enzymes: A Study of Possible Inhibitors.

Milton B. Handelsman, M.D., Cons. VAH, College of Medicine at New York City; Martin Sass, M.S., Biochem., Med. Serv., VAH; Brooklyn, N.Y. (2885)

4841. Studies in Uropepsin Excretion.

Sidney M. Fierst, M.D., Attend. VAH, Clin. Assoc. Prof. of Med., State Univ. of New York, Coll. of Med. at New York City; Saul Feldman, M.D., Senior Resident, Med. Serv., VAH; Nathan Solomon, Ph. D., Research Asst. Chem., State Univ. of New York, Coll. of Med. at New York City; James B. Gabriel, M.D., Ch. GI Sec., VAH; Brooklyn, N.Y. (2864)

4842. An Evaluation of the Reproducibility of I^{131} Triolein Absorption Curves as an Index of Fat Absorption.

James B. Gabriel, M.D., Ch. GI Sec., VAH; Nathan Solomon, Ph. D., Research Asst. Chem., State Univ. of New York, Coll. of Med. at New York City; Sidney M. Fierts, M.D., Attend., VAH, Clin. Assoc. Prof. Med., State Univ. of New York, Coll. of Med. at New York City; Brooklyn, N.Y. (2952)

4843. Use of Chromium Oxide and Iodo Triolein To Determine Intestinal Fat Absorption.

James D. Gabriel, M.D., Ch. GI Sect., VAH; Sidney M. Fierst, M.D., Attend., VAH, Clin. Assoc. Prof. Med., State Univ. of New York, Coll. of Med. at New York City; Martin Sass, M.S., Biochem., Med. Serv., VAH; Nathan Solomon, Ph. D., Research Asst. Chem., State Univ. of New York, Coll. of Med. at New York City; Brooklyn, N.Y. (2953)

4844. Schistosomiasis Study.

Philip R. Casesa, M.D., Dir. Clinic; Thomas Minardi, Clin. Lab. Biochem., VAOC; Brooklyn, N.Y. (8912)

4845. Physiology of the Upper GI Tract.

E. Clinton Texter, M.D., Ch. GI Serv., VAH; Clifford J. Barborka, M.D., Cons., VAH, Assoc. Prof. Med., Northwestern Univ.; Ivan C. Keever, M.D., Attend., VAH, Instr. Med., Northwestern Univ.; Martin Liemer, M.D., Resident, Med., VAH; Gaston Van Trappen, M.D., Resident, Med.; Chicago (Res.), Ill. (3617)

4846. Pharmacology of the Upper GI Tract.

E. Clinton Texter, M.D., Ch. GI Serv., VAH; Ivan C. Keever, M.D., Attend., VAH, Instr. Med., Northwestern Univ.; Martin Liemer, M.D., Resident, Med., VAH; Gaston Van Trappen, M.D., Resident, Med.; Chicago (Res.), Ill. (3618)

4847. Evaluation of Antacid Therapy of Peptic Ulcer.

E. Clinton Texter, M.D., Ch. GI Serv.; Chicago (Res.), Ill. (3627)

4848. Studies of the Mechanism of Gastric Secretion in Man.

E. Clinton Texter, M.D., Ch. GI Serv.; Martin Liemer, M.D., Resident Med.; Richard Horswell, M.D., Resident Med.; Mary P. McKay, B.S., Techn. Pulm. Func. Lab.; Chicago (Res.), Ill. (3635)

4849. Effect of Dessicated Defatted Hog Duodenum on Patients With Peptic Ulcer and Ulcerative Colitis.

E. Clinton Texter, M.D., Ch. GI Serv.; Martin Liemer, M.D., Resident Med.; Chicago (Res.), Ill. (3636)

4850. Therapy of Peptic Ulcer [additional drugs].

E. Clinton Texter, M.D., Ch. GI Serv.; Martin Liemer, M.D., Resident Med.; Ivan C. Keever, M.D., Attend. GI Serv., Instr. Med., Northwestern Univ.; Clifford J. Barborka, M.D., Cons. GI Serv., Assoc. Prof. Med., Northwestern Univ.; Chicago (Res.), Ill. (3637)

4851. Use of I^{131}-Labeled Triolein in Study of Absorptive Disorders.

John A. D. Cooper, Ph. D., M.D., Ch. RI Serv., VAH; Ivan C. Keever, M.D., Attend. Med. Serv., VAH, Instr. Med., Northwestern Univ.; Harold P. Lazar, M.D., Resident GI, VAH; Ernest J. Puletti, M.D., Resident GI; Chicago (Res.), Ill. (3819)

4852. Study of the Morphologic Changes in the Mucosa of the Small Bowel and Diseases of the Small Bowel in Normal Subjects.

E. C. Texter, Jr., M.D., Ch. GI Sec.; H. P. Lazar, M.D., Fellow, GI; E. J. Puletti, M.D., Resident GI, VAH; Ivan C. Keever, M.D., Attend. GI., VAH, Instr. Med., Northwestern; Chicago (Res.), Ill. (9091)

4853. Evaluation of Long-Acting Anticholinergic Drugs in Patients With Peptic Ulcers.

Ivan C Keever, M.D., Attend. GI, VAH, Instr. Med., Northwestern Univ.; H. P. Lazar, M.D., Fellow, GI, VAH; E. J. Puletti, M.D., Resident, GI, VAH; E. C. Texter, Jr., M.D., Ch. GI Sec., VAH; Clifford J. Barborka, M.D., Cons., GI, VAH, Assoc. Prof. Med., Northwestern Univ.; Chicago (Res.), Ill. (9100)

4854. Changes in the Liver in Extrahepatic Diseases.

Hyman J. Zimmerman, M.D., Attend. Phys., VAH, Chm. and Prof. Dept. Med., Chicago Med. Sch.; Paul Heller, M.D., Asst. Dir. Prof. Serv. for Research, VAH; Roy J. Korn, M.D., Ch. Med. Serv.; Chicago (W.S.), Ill. (3716)

4855. Value of Adrenocerticotropic Hormone, Cortisone and Hydrocortisone in Treatment of Hepatic Coma.

Roy J. Korn, M.D., Ch. Med. Serv., VAH; Hyman J. Zimmerman, M.D., Attend. Phys., VAH, Chm. and Prof. Dept. Med., Chicago Med. Sch.; Chicago (W.S.), Ill. (3737)

4856. Jaundice and Hepatic Dysfunction Associated With Iproniazid Administration.

Roy J. Korn, M.D., Ch. Med. Serv., VAH; Hyman J. Zimmerman, M.D., Attend. Phys., VAH, Chm. Dept. Med., Chicago Med. Sch.; L. Rosenblum, M.D., Resident, Med. Serv., VAH; Chicago (W.S.), Ill. 3738)

4857. Hemagglutination Test With Macacus Rhesus Erythrocytes for Viral Hepatitis.

Roy J. Korn, M.D., Ch. Med. Serv.; Vincent J. Yakulis, B.S., Serol., Research Lab.; Chicago (W.S.), Ill. (3739)

4858. Uremic Pancreatitis.

Bernard Chomet, M.D., Ch. Lab. Serv.; M. Glick, M.D., Resident, Med. Serv.; Chicago (W.S.), Ill. (3758)

4859. The Long-Term Prognosis of Patients With Adhesive Intestinal Obstruction.

D. T. Petty, M.D., Asst. Ch. Surg. Serv.; M. I. Gibbel, M.D., Ch. Surg. Serv.; Chicago (W.S.), Ill. (3764)

4860. The Role of Liver Damage in Experimental Hemosiderosis.

Hyman J. Zimmerman, M.D., Attend. Phys., VAH, Chm. Dept. Med., Chicago Med. Sch.; Leigh Rosenblum, M.D., Resident, Med. Serv., VAH; Bernard Chomet, M.D., Ch. Lab. Serv.; Chicago (W.S.), Ill. (3790)

4861. Differential Findings in Laennec's and Post-Necrotic Cirrhosis.

Hyman J. Zimmerman, M.D., Attend. Phys., VAH, Chm. Dept. Med., Prof. Med., Chicago Med. Sch; Bernard Chomet, M.D., Ch. Lab. Serv., VAH; Roy J. Korn, M.D., Ch. Med. Serv.; Chicago (W.S.), Ill. (9396)

4862. Subcutaneous Fat Necrosis Associated With Acute Pancreatitis.

Arnold Swerdlow, M.D., Resident, Surg. Serv; Myron Berman, M.D., Resident, Med. Serv.; Jonas Valaitis, M.D., Asst. Ch. Lab. Serv.; Chicago (W.S.), Ill. (9397)

4863. Transplantation of the Pancreas in Dogs.

Alfred M. Keirle, M.D., Ch. Surg. Serv.; Cincinnati, Ohio. (10937)

4864. Study of Gastrointestinal Absorption Vitamin B_{12} "Malabsorption Syndrome" and Cirrhosis of the Liver.

Richard M. Whittington, M.D., Ch. Hemat. Sect.; Harold P. Roth, M.D., Ch. GI Sect.; H. H. Heller, M.D., Fellow GI; Richard E. Clark, B.S., Physicist, RI Serv.; Cleveland, Ohio. (3123)

4865. Study of Patient Cooperation in Ulcer Treatment.

Harold P. Roth, M.D., Ch. GI Sect., VAH.; David G. Berger, Ph. D., Research Psychol., VAH; George F. Albee, Ph. D., Prof. and Chm. Psychol., Western Reserve Univ.; George A. Streeter, M.D., Clin. Instr. Psychiat., Western Reserve, Univ.; Cleveland, Ohio. (3135)

4866. Effect of Dietary Intake on Stool Bulk.

Harold P. Roth, M.D., Ch. GI Sect.; Haskell H. Heller, M.D., Resident, GI Serv.; Cleveland, Ohio. (10649)

4867. Studies on Esophageal Motility.

Bertram Fleshler, M.D., Sr. Instr. Med., Western Reserve Univ., Attend. Phys., VAH; Harold P. Roth, M.D., Ch. GI Sect., VAH; Cleveland, Ohio (10650)

4868. Observations on Factors Affecting the Course of Cirrhosis of the Liver.

Harold P. Roth, M.D., Ch. GI Sect., VAH; George J. Gabuzda, M.D., Attend. Phys., VAH, Assoc. Prof. Med., Western Reserve Univ., Cleveland, Ohio. (10803)

4869. Chronic Ulcerative Colitis: An Analytical Retrospective Study.

Robert A. McNaughton, M.D., Attend. Sp. GI; John M. Rumball, M.D., Ch. Med. Serv.; Coral Gables, Fla. (8875)

4870. The Effects of Analgesics on Serum Enzymatic Activity.

J. E. Berk, M.D., Cons. VAH, Assoc. Prof. Med., Wayne State; H. Harris, M.D., Staff Phys., VAH; D. E. Hissong, B.S., Biochem., Med. Research Lab.; H. Kullman, M.D., Ch. GI Sect.; B. H. Pringle, Ph. D., Prin. Scien., Ch. Med. Rseearch Lab.; Dearborn, Mich. (9082)

4871. Experimental Effort To Produce Hepatitis in the Livers of Dogs and Rabbits.

T. A. Witten, M.D., Asst. Ch. Med. Serv.; B. Eiseman, M.D., Ch. Surg. Serv.; E. Valentine, M.D., Ch. Lab. Serv.; Denver, Colo. (9460)

4872. Radiographic Opacification of the Liver and Spleen by the Use of Colloidal Stanic Oxide.

A. L. Daywitt, M.D., Ch. Radiol. Serv.; W. H. Conyers, M.D., Resident Radiol.; Denver, Colo. (9461)

4873. Inhibition of Thymol Flocculation by Normal and Icteric Sera.

Malcolm P. Tyor, M.D., Ch. GI Sect.; Durham, N.C. (3858)

4874. The Absorption of I^{131} Labeled Lipids Following Intraduodenal Administration.

Malcolm P. Tyor, M.D., Ch. GI Sect., VAH; Julian M. Ruffin, M.D., Prof. Med., Duke Med. Center; Benno Janssen, Jr., M.D., Instr. Med., Duke Med. Center; Durham, N.C. (3968)

4875. Relationship between Absorption of I^{131} Lipids and Intestinal Motility.

Malcolm P. Tyor, M.D., Ch. GI Sect., VAH; Julian M. Ruffin, M.D., Prof. Med., Duke Med. Center; Durham, N.C. (3975)

4876. The Relative Effect of Pre-Feeding of Fat, Carbohydrate and Protein on Lipid Absorption in Patients With Subtotal Gastrectomy.

Malcolm P. Tyor, M.D., Ch. G.I. Sect., Ch. RI Serv., VAH; Julian M. Ruffin, M.D., Prof. Med., Duke Med. Center; Marion Hargrove, M.D., Instr. Med., Duke Med. Center; Durham, N.C. (9548)

4877. Hemodynamic Effects Following the Intestinal Administration of Hyperosmolar.

Malcolm P. Tyor, M.D., Ch. G.I. Sect., VAH; Arnold M. Weissler, M.D., Assoc. Med., Duke Med. Center; James H. Johnson, M.D., Instr. Med., Duke Med. Center; Durham, N.C. (9549)

4878. Changes in Serum Proteins During the Course of Cirrhosis of the Liver as Determined From Paper Electrophoresis.

William P. DeMond, M.D., Ch. Med. Serv.; Fort Harrison, Mont. (4059)

4879. Fat Digestion Study With Radioiodinated Triolein.

Abraham A. Polachek, M.D., Ch. RI; Clyde B. Cope, M.D., Sect. Ch. GI; Robert F. Williard, B.S., Biochem., VAH, Fort Howard, Md.; Frederick W. Barnes, Jr., M.D., Ph. D., Assoc. Prof. Med. and Phy. Chem., Johns Hopkins Univ.; Baltimore, Md. (4077)

4880. Effect of Pancreatin (Viokase) on Fat Absorption With Radio-iodinated Triolein.

Abraham A. Polachek, M.D., Ch. RI Serv.; Robert F. Williard, B.S., Biochem.; Fort Howard, Md. (4080)

4881. The Incidence and Size of Varices by Esophagoscopy in Various Clinical Conditions.

Clifford W. Smith, M.D., Attend. Phys., Med. Serv.; Douglas David, M.D., Ch. Cardio-Pulm. Sec., Med. Serv.; E. O. Willoughby, M.D., Asst. Ch. Med. Serv.; Robert C. Fruin, M.D., Ch. GI Sect., Med. Serv.; Lyle A. Baker, M.D. (Former) Ch. Med. Serv.; Hines, Ill. (4197)

4882. A Clinical Test for Esophagitis.

Lionel M. Bernstein, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Lyle A. Baker, M.D., Ch. Med. Serv.; Robert C. Fruin, M.D., Ch. GI Sec.; Ralph Pacini, M.D., Ch. GI Sect.; Hines, Ill. (4198)

4883. To Test the Practical Clinical Value of Repeated Intravenous Administration of Osmotic Diuretics in Refractory Edema of Cirrhosis.

Lionel M. Bernstein, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Edward Willoughby, M.D., Asst. Ch. Med. Serv.; William Liebhauser, M.D., Resident, Med. Serv.; John P. Henry, M.D., Resident, Med. Serv.; Hines, Ill. (4200)

4884. An Esophago-Gastroscope for Visualization of Blind Areas.

Lionel M. Bernstein, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Robert C. Fruin, M.D., Ch. GI Sec., VAH; Edmund Gorvett, M.D., Attend. Phys., Med. Serv., VAH, Asst. Prof. Dept. Med., Northwestern Univ.; Hines, Ill. (4207)

4885. Biopsy of the Esophageal Mucosa in "Pseudo-Esophagitis", Esophagitis, and Normals.

Lionel M. Bernstein, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Robert C. Fruin, M.D., Ch. GI Sec., VAH; Edmund Gorvett, M.D., Attend. Phys., Med. Serv., VAH, Asst. Prof. Dept. Med., Northwestern Univ.; Myron E. Rubnitz, M.D., Ch. Lab. Serv., VAH; Hines, Ill. (4208)

4886. Determination of the Relationship Between Acid-Combining Properties of Aluminum Gels and Their Effectiveness in Relief of Pain and Promotion of Healing in Patients With Peptic Ulcer.

Armand Littman, M.D., Ch. Med. Serv.; Robert Fruin, M.D., Ch. GI Sec.; Ralph Pacini, M.D., Asst. Ch. GI Sec.; Hines, Ill. (10366)

4887. Effect of Intragastric Beta Irradiation on Patients With (1) Intractable Duodenal Ulcer, and (2) Incurable Malignant Tumors of the Stomach.

Armand Littman, M.D., Ch. Med. Serv.; Robert Fruin, M.D., Ch. GI Sec.; Ahren Jacobson, M.S., Physicist, RI Serv.; Theodore Fields, M.S., Radiophysicist, RI Serv.; Hines, Ill. (10367)

4888. Electroencephalographic Studies on Patients With Peptic Ulcer and Ulcerative Colitis.

Walter R. Kirschbaum, M.D., Attend. Phys., Neuropath., VAH, Assoc. Prof. Dept. Neurol. and Psychiat., Northwestern Univ. Med. Sch.; Eli Tigay, M.D., Ch. Neur. Serv., VAH; Hines, Ill. (10368)

4889. Possible Bases for Ulcerogenic Action of Cortisone-Like Drugs.

Armand Littman, M.D., Ch. Med. Serv.; Hines, Ill. (10369)

4890. The Effect of Severe Liver Disease on Renal Function.

Lionel M. Bernstein, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Hines, Ill. (10370)

4891. Definition of the Entity "Duodenitis."

Armand Littman, M.D., Ch. Med. Serv.; Robert Fruin, M.D., Ch. GI Sec.; Ralph Pacini, M.D., Asst. Ch. GI Sec.; William E. Frederick, M.D., Asst. Ch. Radiol. Serv.; Myron Rubnitz, M.D., Ch. Lab. Serv.; Hines, Ill. (130371)

4892. The Effects of Chronic Hypoglycemia on Canine Gastric Physiology.

Samuel W. Law, M.D., Resident Thoracic Surg.; George L. Jordan, Jr., M.D., Ch. Surg. Serv., VAH; Ella E. Sheehan, M.D., Instr. Path., Baylor Univ.; Houston, Tex. (10943)

4893. Dietary Management of Certain Colon Conditions.

Samuel Simkin, M.D., Ch. Gen. Surg. Unit; Adelle C. Pittman, Ch. Nut. Clin., VARO; Houston, Tex. (10216)

4894. Strongyloides Stercoralis Infestation in Elderly Patients.

E. L. Walsh, M.D., Ch. Med. Serv.; A. J. Beaumont, B.S., Ch. Clin. Microscopy and Microbiol. Unit, Lab. Serv.; Huntington, W. Va. (4817)

4895. Use of Oribelex in Over-Weight Patients.

Michael M. Klein, M.D., Ch. Radiol. Serv.; Huntington, W. Va. (10876)

4896. Absorption of Perfusion Fluid from a Dragstedt Pouch in a Dog.

Robert E. Lempke, M.D., Asst. Ch. Surg. Serv.; Francis W. Morthland, Ph. D., Asst. Ch. RI Serv.; Davis L. Ritter, Tech.; Indianapolis, Ind. (4798)

4897. The Effect of Diagnostic X-ray Examination of the Gastro-Intestinal Tract upon the Cobalt-60 Labeled Vitamin B_{12} Test for Pernicious Anemia.

David E. Wheeler, M.D., Act. Ch. RI Serv.; James E. Durlacher, B.A., Asst. Ch. RI Serv.; Betty J. Marshall, RI Tech.; Indianapolis, Ind. (4803)

4898. Hepatic Hemodynamics and Metabolism in Cirrhosis.

J. A. Clifton, M.D., Ch. GI, VAH; G. M. Thorton, M.D., Research Assoc., State Univ. Iowa College Med.; J. W. Eckstein, M.D., Instr., State Univ. Iowa College Med.; Iowa City, Iowa. (4838)

4899. Effect of 5-Hydroxytryptamine (Serotonin) on Small Intestinal Motility and its Correlation with the Amino Oxidase Content of Liver and of Small Intestine in Normal Subjects and in Patients with Liver Disease and with Sprue.

Richard D. Eckhardt, M.D., Asst. Ch. Med. Serv.; Elwood Buchman, M.D., Asst. Ch. Med. Serv., VAH; J. A. Clifton, M.D., Ch. GI., State Univ. of Iowa Coll. of Med.; Iowa City, Iowa. (4841)

4900. The Nature of Acute Hemorrhagic Pancreatitis.

Kenneth R. Cross, M.D., Act. Ch. Lab. Serv.; Dale F. Rector, M.D., Sen. Resident Dept. Path., VAH; Jens Sahl, M.D., Resident Phys. Dept. Surgery, State Univ. of Iowa; Iowa City, Iowa. (4847)

4901. Correlation of Disease of the Gall Bladder, Common Duct and Pancreas.

Kenneth R. Cross, M.D., Act. Ch. Lab. Serv., VAH; Jens Sahl, M.D., Resident Phys. Dept. Surg., State Univ. of Iowa Coll. of Med.; Iowa City, Iowa. (4848)

4902. The Survival of Experimental Animals with Reversible Surgical Isolation of the Liver and Chemically Induced Hepatic Failure by use of Extra-corporeal Dialysis.

Richard L. Lawton, M.D., Surg.; Frederick D. Staab, M.D., Asst. Ch. Surg. Serv.; Edgar S. Brintnall, M.D., Ch. Surg. Serv.; Iowa City, Iowa. (4864)

4903. Intermediary Metabolism of BSP Tagged With S^{35} and Rose Bengal Tagged with I^{131} Using Radioautographic Techniques.

Elwood Buchman, M.D., Asst. Ch. Med. Serv; Richard E. Peterson, M.D., Ch. RI Serv.; Iowa City, Iowa. (4893)

4904. The Relationship of Duodenal Ulcer to Chronic Pulmonary Emphysema.

Elwood Buchman, M.D., Asst. Ch. Med. Serv.; Julius G. Baron, M.D., Ch. Radiol. Serv.; David T. Kaung, M.D., Staff Phys., Med. Serv.; Iowa City, Iowa. (8549)

4905. A New Evacuant Suppository (Dulcolax) for Treatment of Rectal Dyschezia of Chronic Sick and Geriatric Patients.

Emmett D. Wall, M.D., Ch. Med Serv.; Jefferson Barracks, Mo. (4929)

4906. Radioactive Triolein Excretion and Increased Intestinal Motility.

Arthur P. Klotz, M.D., Assoc. Prof. Med., Univ. of Kansas Med. Center; Robert Mosser, M.D., Resident, Med., VAH; Ludwald Perry, M.D., Resident, Med.; Kansas City, Mo. (4475)

4907. An Extension of Pancreatic Secretion and Steatorrhea in Diabetic Neuropathy.

Arthur P. Klotz, M.D., Ch. GI Serv.; Robert Mosser, M.D. Resident, Med.; Kansas City, Mo. (4952)

4908. The Levels of Keto- and Hydroxy-Steroids in Patients with Cirrhosis of the Liver.

Robert W. Brown, M.D., Asst. Ch. Med. Serv.; Kansas City, Mo. (9616)

4909. Reproduction of Roentgenological Aspects of the Mucosal Relief Pattern in Gastro-Intestinal Diagnostics (Interpretation of Stereognostic Views by Moulding of Templates).

Hans Heilbronn, M.D., Ch. Radiol. Serv.; Kecoughtan, Va. (4992)

4910. Serum Magnesium Levels in Long-Term Patients Undergoing Fluid Replacement Therapy and Its Clinical Implications.

Francis Neumayer, M.D., Surg. Serv.; Sue C. Stevens, Ph. D., Research Biochem.; Lincoln, Nebr. (6368)

4911. A Study of the Salivary Excretion of Radioactive Iodide and the Use of Salivary Iodide Clearance as a Measure of Salivary Blood Flow.

Eugene J. Towbin, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; William H. Perkins, M.D., Ch. RI Serv.; Little Rock, Ark. (5078)

4912. Observations on the Concentration of Iodide, Potassium and Sodium at the Start of Salivary Secretion and During Subsequent Steady Secretion.

Eugene J. Towbin, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Little Rock, Ark. (5079)

4913. The Effect of Elevated Duct Pressure on the Venous Iodide Transient Following Stimulation of Salivation.

Eugene J. Towbin, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Little Rock, Ark. (11000)

4914. The Effect of Thiocyanate and Perchlorate Upon Parotid Iodide Storage.

Eugene J. Towbin, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Little Rock, Ark. (11001)

4915. The Diagnosis and Developmental Anatomy of Esophageal Varices.

S. J. Stempien, M.D., Ch. GI Sect.; Harold Siefer, M.D., Staff Phys.; R. Sandhoff, M.D., Cons.; Angelo Dagradi, M.D., Ch. Gen. Med. Sect.; Long Beach, Calif. (5148)

4916. The Objective Evaluation of Intractable Duodenal Ulcer Patients.

S. J. Stempien, M.D., Ch. GI Sect.; Harold Siefer, M.D., Staff Phys.; Angelo Dagradi, M.D., Ch. Gen. Med. Sect.; Long Beach, Calif. (5149)

4917. Studies on the Relationship Between Glucose Metabolism and Gastric Acid Secretion.

N. R. Eade, M.D., Resident Phys.; S. J. Stempien, M.D., Ch. GI Sect.; Long Beach, Calif. (5150)

4918. The Effect of Glucogan and Glucogan-free Insulin on the Gastric Acid Secretion of Normal Human Subjects, Duodenal Ulcer Patients, and Duodenal Ulcer Patients After Vagotomy-Pyloroplasty.

S. J. Stempien, M.D., Ch. GI Sect.; Joe Cottingham, Tech. GI Sect.; Long Beach, Calif. (5169)

4919. Study of the Pathophysiology of Hypertrophic Gastritis and an Evaluation of the Effect of Vagotomy-Pyloroplasty.

S. J. Stempien, M.D., Ch. GI Sect.; J. A. Weinberg, M.D., Ch. Surg. Serv.; Angelo Dagradi, M.D., Ch. Gen. Med. Sect.; Long Beach, Calif. (5184)

4920. Study of the Pathophysiology of Benign Gastric Ulcer and an Evaluation of Its Surgical Treatment.

S. J. Stempien, M.D., Ch. GI Sect.; Glenn A. Young, M.D., Ch. Gen. Surg. Sect.; Angelo Dagradi, M.D., Ch. Gen. Med. Sect.; Long Beach, Calif. (5185)

4921. Continuous Recording of the Duodenal pH With an Intraluminal Glass Electrode.

Leon J. Steinsapir, M.D., Resident Phys. GI Sect.; Stephen J. Stempien, M.D., Ch. GI Sect.; Long Beach, Calif. (8414)

4922. Continuous Recording of the Duodenal pH With an Intraluminal Glass Electrode Part II. Evaluation of Antacid Therapy.

Leon J. Steinsapir, M.D., Resident Phys. GI Sect.; Stephen J. Stempien, M.D., Ch. GI Sect.; Long Beach, Calif. (8415)

4923. A Comprehensive Evaluation of Management in Upper Gastro-Intestinal Bleeding in Liver Cirrhosis—A Combined Medical, Surgical and Radiological Approach.

Stephen J. Stempien, M.D., Ch., GI Sect.; Sherwin Zeid, M.D., Staff Phys. GI Sect.; Angelo Dagradi, M.D., Asst. Ch. GI Sect.; Leon J. Steinsapir, M.D., Resident Phys., GI Sect.; A. Thomas Ferguson, M.D., Staff Phys. Surg. Serv.; Allan Skorneck, M.D., Ch. Diagnostic Sect., Radiol. Serv.; Long Beach, Calif. (8837)

4924. The Effect of Adrenocorticotrophic Hormone (ACTH) and Corticosteroids on the Vagal, Adrenal and Basal Phases of Gastric Acid Secretion in Normal Human Subjects and in Patients After Vagotomy-Pyloroplasty.

Stephen J. Stempien, M.D., Ch. GI Sect.; Angelo D. Dagradi, M.D., Asst. Ch., GI Sect.; Joseph Cottingham, Tech., GI Sect.; Long Beach, Calif. (8838)

4925. The Role of Histamine in Gastric Secretion.

Morton I. Grossman, M.D., Ch. GI Sect.; Los Angeles, Calif. (5634)

4926. Effect of Smoking on Certain Gastric Functions.

Morton I. Grossman, M.D., Ch. GI Sect., VAC; Kenneth Matsumoto, M.D., Clin. Instr. Med., Univ. of California at Los Angeles Med. Cent.; Los Angeles, Calif. (5652)

4927. Factors Related to Exocrine Secretory Function of the Pancreas.

Morton I. Grossman, M.D., Ch. GI Sect.; Los Angeles, Calif. (5671)

4928. Effect of Administration of Aspirin on Clinical Manifestations of Peptic Ulcer.

Morton I. Grossman, M.D., Ch. GI Sect., VAC; Kenneth Matsumoto, M.D., Clin. Instr. Med., Univ. of California at Los Angeles Med. Center; Los Angeles, Calif. (5705)

4929. Effect of Insulin Hypoglycemia on Gastric Secretion after Vagotomy.

William H. Bachrach, M.D., GI; Los Angeles, Calif. (5706)

4930. The Effect of Anti-Rheumatic Drugs on Gastric Mucus Secretion.

Morton I. Grossman, M.D., Ch. GI Sect.; Los Angeles, Calif. (5607)

4931. Secretory Activity of the Stomach in Hypertensive Patients Treated with SU-3118 (CIBA) (Carbethoxysyringoyl Methylreserpate).

E. J. Drenick, M.D., Staff Phys.; Los Angeles, Calif. (5712)

4932. Study of the Relation Between Esophageal Acid Reflux and Esophagitis.

Stewart G. Tuttle, M.D., Clin. Invest.; Morton I. Grossman, M.D., Ch. GI Sect.; Los Angeles, Calif. (5837)

4933. A Study of Iron Metabolism and Radioactive Rose Bengal Excretion in Acute Hepatitis and Allied Disorders.

Stewart G. Tuttle, M.D., Clin. Invest.; Robert A. Nordyke, M.D., Asst. Ch. Clin. Sec., RI Serv.; William H. Blahd, M.D., Ch. RI Serv., VAC; William G. Figueroa, M.D., Attend. Phys., VAC, Asst. Prof. Med., Univ. of California at Los Angeles Med. Center; Los Angeles, Calif. (5959)

4934. Use of Cr^{51} in Quantitative Estimation of Gastrointestinal Bleeding.

Morton I. Grossman, M.D., Ch. GI Sec.; William H. Blahd, M.D., Ch. RI Serv.; Los Angeles, Calif. (5867)

4935. Blood Disappearance of Radioactive Rose Bengal as a Test of Liver Function.

R. A. Nordyke, M.D., Asst. Ch. Clin. Sec., RI Serv.; W. H. Blahd, M.D., Ch. RI Serv.; Los Angeles, Calif. (5872)

4936. An Inquiry into the Role of Dietary Protein in the Treatment of Ascites Due to Laennec's Cirrhosis.

M. I. Grossman, M.D., Sec. Ch. GI, VAC; Sherman M. Mellinkoff, M.D., Attend. Med., VAC, Assoc. Prof. Med., Univ. of California at Los Angeles Med. Center; H. Bernstein, M.D., Resident, Univ. of California at Los Angeles Med. Center; Ismael Mena, M.D., Fellow, Kellogg Found., Univ. of California at Los Angeles Med. Center; Los Angeles, Calif. (8440)

4937. Studies on the Etiology of Peptic Ulcer.

Morton I. Grossman, M.D., Sec. Ch. GI; Los Angeles, Calif. (8441)

4938. Physiology of the Pyloric Glands.

Morton I. Grossman, M.D., Sec. Ch. GI; Los Angeles, Calif. (9159)

4939. Recurrent Hemorrhage From Duodenal Ulcer.

Morton I. Grossman, M.D., Sec. Ch. GI; Los Angeles, Calif. (9160)

4940. Factors Influencing Duration of Action of Antacids.

Morton I. Grossman, M.D., Ch. GI. Sec.; Los Angeles, Calif. (9204)

4941. Use of I^{131} Labeled Bromsulfalein for the Study of Liver Function and Liver Scanning.

W. H. Blahd, M.D., Ch. RI. Serv.; R. A. Nordyke, M.D., Asst. Ch. Clin. Sec. Serv.; M. Tubis, M.S., Ch. Biochem. RI. Serv.; Los Angeles, Calif. (9207)

4942. The Management of Gastric Ulcer.

William H. Bachrach, M.D., GI; Melvin Brody, M.D., Clin. Asst. Med.; Vernon W. Lieberman, M.D., Attend. Spec. Med., VAC, Clin. Asst. Med., UCLA-Med. Cent.; Los Angeles, Calif. (9890)

4943. Studies Relative to Gastric Ulcer.

J. R. Gott, Jr., M.D., Ch. Med. Serv.; Louisville, Ky. (5463)

4944. Studies Relative to Upper Gastrointestinal Hemorrhage.

J. R. Gott, Jr., M.D., Ch. Med. Serv.; Louisville, Ky. (5464)

4945. Comparisons of Uropepsinogen Excretion and the Uropepsin/Creatinine Ratio as Indices of Gastric Function.

Solomon J. Rosenberg, M.D., Asst. Ch. Med. Serv.; Louisville, Ky. (5465)

4946. Cirrhosis of the Liver. A 12-Year Study.

William B. Triplett, M.D., Form. Resident Med.; J. R. Gott, Jr., Ch. Med. Serv.; Louisville, Ky. (5475)

4947. Uropepsinogen Studies in Gastric Ulcer, Carcinoma of Stomach, Hepatic Cirrhosis, and Upper Gastrointestinal Hemorrhage.

Louis Y. Peskoe, M.D., Ch. GI.; J. R. Gott, Jr., M.D., Ch. Med. Serv.; Louisville, Ky. (5483)

4948. Sitting Position for Peroral Endoscopies.

Heinz Oppenheim, M.D., Ch. Otolaryng.; Louisville, Ky. (10751)

4949. A Radiologic Study of Gastric Ulcer.

Roger A. Anderson, M.D., Resident, Radiol. Serv., VAH; Sewell S. Gordon, M.D., Attend. VAH, Clin. Asst. Prof. Radiol., Univ. of Minnesota; Minneapolis, Minn. (6169)

4950. Disease of the Duodenal Bulb.

Joseph Jorgens, M.D., Ph. D., Ch. Radiol. Serv.; Minneapolis, Minn. (6197)

4951. Peristalsis of the Small Bowel.

Joseph Jorgens, M.D., Ph. D., Ch. Radiol. Serv.; Minneapolis, Minn. (6198)

4952. Disease of the Distal Esophagus.

J. Jerome Hopperstad, M.D., Resident, Radiol. Serv.; Minneapolis, Minn. (6200)

4953. Effects of Adrenal Corticotrophic Hormone (ACTH) and Cortisone on Gastric Secretion in Heidenhain Pouch Dogs.

Clarence E. Sherwood, M.D., Resident, Surg. Serv.; William D. Kelly, M.D., Ph. D., Dir. Lab. Exper. Surg.; Minneapolis, Minn. (6232)

4954. Effect of Intravenous Fat Emulsion on Nutritional State of Patients With Steatorrhea.

Carl S. Alexander, M.D., Clin. Invest.; Leslie Sieve, M.D., Ph. D., Ch. RI Serv.; Minneapolis, Minn. (6313)

4955. The Normal and Abnormal Esophagus—Motility Studies.

Harlan W. Hawkinson, M.D., Resident, Radiol. Serv.; Minneapolis, Minn. (8596)

4956. The Normal and Abnormal Antrum of the Stomach.

Ilmar O. Kiesel, M.D., Career Resident, Radiol. Serv.; Minneapolis, Minn. (8597)

4957. The Physiology of Peristalsis of Normal and Abnormal Colon.

Paul Selchau, M.D., Resident, Radiol. Serv.; Minneapolis, Minn. (9847)

4958. Hepto-Visualization in the Dog Using Stable Colloidal Gold.

Paul F. Hahn, Ph. D., Dir. Cancer Res. Lab., Meharry Med. Coll.; R. O. Christensen, M.D., Asst. Ch. Clin. Lab., VAH; Norman Ende, M.D., Ch. Clin. Lab.; David E. Sherman, M.D., Ch. Radiol.; Nashville, Tenn. (9976)

4959. Cholografin for Intravenous Demonstration of Bile Ducts and Gallbladder.

S. W. Westing, M.D., Ch. Radiol.; Newington, Conn. (6353)

4960. Clinical Evaluation of New Serum Trypsin Test for Pancreatic Disease.

Philip Morgenstern, M.D., Sect. Ch. Med. Serv.; Burton C. Deane, M. Sc., Biochem. Gen. Med. Research; Newington, Conn. (8499)

4961. Study of the Correlation of ABO Blood Types With Incidence of Gastrointestinal Bleeding.

Anthony M. Scardino, M.D., Resident, Med. Serv.; Louis Burroughs, M.D., Resident, Med. Serv.; John P. Muhleisen, M.D., Ch. GI Serv.; New Orleans, La. (6388)

4962. Study of a New Tranquilizer.

John P. Muhleisen, M.D., Ch. GI Serv.; New Orleans, La. (6390)

4963. Gastrointestinal Motility, Pancreatic Physiology, and Related Nutrient Absorption Studies.

John T. Farrar, M.D., Ch. GI Sec.; New York, N.Y. (6484)

4964. Tubeless Measurement of Gastrointestinal Motility.

John T. Farrar, M.D., Ch. GI Sec.; James S. Bernstein, M.D., Resident GI; New York, N.Y. (6495)

4965. Analysis of Intestinal Motility Records by Modern Computer Techniques.

John T. Farrar, M.D., Ch. GI Sec.; New York, N.Y. (6502)

4966. Absorption of Radioactive Sodium (NA^{24}) from the Human Small Intestine.

John T. Farrar, M.D., Ch. GI Sec.; Victor W. Groisser, M.D., Resident GI; New York, N.Y. (6506)

4967. Electropotential Changes Arising From the Small Intestine.

Lawrence Horowitz, M.D., Resident, GI Sec.; Sheldon Sax, M.D., Staff Phys., Gen Surg.; John T. Farrar, M.D., Ch. GI Sec.; New York, N.Y. (11025)

4968. The Lipid Composition of Red Blood Cells in Patients With Jaundice.

E. R. Movitt, M.D., Ch. Med. Serv.; Bruno Gerstl, M.D., Ch. Lab. Serv.; M. Jeanne Kahnke, Ph. D., Biochem. Lab. Serv.; Oakland, Calif. (6640)

4969. Characteristics of the Gastric Inhibitory Factor of Normal Human Gastric Juice.

William O. Smith, M.D., Asst. Ch. RI Serv.; Stewart G. Wolf, M.D., Cons. Phys.; Oklahoma City, Okla. (6845)

4970. Production of Gastric Atrophy by Inhibitory Factor of Normal Human Gastric Juice.

William O. Smith, M.D., Asst. Ch. RI Serv., VAH; Merlin K. Duval, M.D., Assoc. Prof. Surg., Oklahoma Univ. Med. School; Walter Joel, M.D., Path., VAH; Walter L. Honska, M.D., Ch. Resident Phys.; Stewart G. Wolf, M.D., Cons. Phys.; Oklahoma City, Okla. (6846)

4971. A Clinical Trial of PU–239, A New Antisecretory Compound for the Treatment of Peptic Ulcer.

David C. Mack, M.D., Dir. Exper. Therapeutic Lab.; Oklahoma City, Okla. (6874)

4972. Further Studies on the Metabolic Factor in Experimental Acute Pancreatitis.

Rene B. Menguy, M.D., Asst. Ch. Surg. Serv.; Oklahoma City, Okla. (6921)

4973. Study of Large Molecular Constituents of Gastric Juice.

Philip C. Johnson, M.D., Ch. RI Serv.; Jane B. Faulkner, Tech.; Theda B. Driscoll, Tech.; Oklahoma City, Okla. (6930)

4974. Cobalt-$_{60}$ Vitamin B_{12} Uptake in Liver Slices.

Theda B. Driscoll, Tech.; Jane B. Faulkner, Tech.; Philip C. Johnson, M.D., Ch. RI Serv.; Oklahoma City, Okla. (6936)

4975. An Attempt to Study Snythesis of Various Component Sugars of Gastric Juice *In Vivo*.

William R. Hood, M.D., Resident Phys.; George H. Stidworthy, Ch. Biochem.; Allen R. Hennes, M.D., Asst. Ch. Med. Serv.; Oklahoma City, Okla. (10045)

4976. The Effect of Injections of Human and Rabbit Ileum on the Ileum of Rabbits.

Allen R. Hennes, M.D., Asst. Ch. Med. Serv.; Walter L. Honska, M.D., Ch. Resident Phys.; William O. Smith, M.D., Asst. Ch. RI Serv.; Margaret Moore, Tech.; Walter Joel, M.D., Path.; Oklahoma City, Okla. (10046)

4977. The Effect of Normal Human Gastric Juice on the Normal Rat Stomach.

Walter L. Honska, Jr., M.D., Ch. Resident Phys.; William O. Smith, M.D., Asst. Ch. RI Serv.; Walter Joel, M.D., Path.; Stewart G. Wolf, M.D., Cons. Phys.; Oklahoma City, Okla. (10047)

4978. Further Studies on Gastric Inhibitor.

Kenneth Braden, M.D., Resident Phys.; Philip C. Johnson, M.D., Ch. RI Serv.; Stewart G. Wolf, M.D., Cons. Phys.; Oklahoma City, Okla. (10048)

4979. A Study of Occult Blood in Stools After Administration of Aspirin Compound or a Placebo.

Adrian A. Kyriacopoulos, M.D., Resident Fellow; David C. Mock, M.D., Dir. Exper. Therapeutic Lab.; Oklahoma City, Okla. (10049)

4980. The Effect of Opiates in Transaminase Determinations in Man.

Walter L. Honska, M.D., Ch. Med. Resident, Oklahoma City, Okla. (10050)

4981. Effect of Intrinsic Factor Preparations on *In Vitro* Absorption of Vitamin B_{12} by the GI Tract of Man, Dogs and Rats.

Walter L. Honska, M.D., Ch. Med. Resident; Theda B. Driscoll, Tech.; Philip C. Johnson, M.D., Ch. RI Serv.; Oklahoma City, Okla. (10051)

4982. Assay of Inhibitory Activity in Gastric Juice From Patients With Atrophic Gastritis, Pernicious Anemia and Gastric Cancer.

Rene B. Menguy, M.D., Asst. Ch. Surg. Serv.; William O. Smith, M.D., Asst. Ch. RI Serv.; Oklahoma City, Okla. (10052)

4983. Study of Mechanism of Inhibition of Gastric Secretion by Fat in the Rat.

Rene B. Menguy, M.D., Asst. Ch. Surg. Serv.; Oklahoma City, Okla. (10053)

4984. *In Vivo* and *In Vitro* Study of the Effects of Bile Salt Compounds on Gastric Secretion.

Rene B. Menguy, M.D., Asst. Ch. Surg. Serv.; Oklahoma City, Okla. (10054)

4985. Study of the Effects of Fractions of Whole Human Gastric Juice on Gastric Secretion on the Rat.

Rene B. Menguy, M.D., Asst. Ch. Surg. Serv.; William O. Smith, M.D., Asst. Ch. RI Serv.; Oklahoma City, Okla. (10055)

4986. Study of Mechanism of Gastric Inhibition by Fat in the Dog.

Rene B. Menguy, M.D., Asst. Ch. Surg. Serv., Oklahoma City, Okla. (10056)

4987. Study of the Intestinal Mechanisms Regulating Gastric Motility in the Dog.

Rene B. Menguy, M.D., Asst. Ch. Surg. Serv.; Oklahoma City, Okla. (10057)

4988. Study of the Mechanism of Inhibition of Gastric Secretion in the Rat by Bile Duct Ligation.

Rene B. Menguy, M.D., Asst. Ch. Surg. Serv.; Oklahoma City, Okla. (10058)

4989. Study of Effects of Whole Human Gastric Juice on Gastric Secretion in the Rat.

Rene B. Menguy, M.D., Asst. Ch. Surg. Serv.; William O. Smith, M.D., Asst. Ch. RI Serv.; Oklahoma City, Okla. (10059)

4990. Anatomical Studies of the Liver Using External *In Vivo* Gamma Ray Scanning.

Richard E. Ogborn, M.D., Ch. RI Serv.; Arthur L. Dunn, Ph. D., Asst. Ch Scien. RI Serv., Alan J. Blotcky, B.S., Asst. Ch. RI Serv.; Omaha, Neb. (6775)

4991. An Investigation of Salivary Excretion of Vitamin B–12.

Richard E. Ogborn, M.D., Ch. RI Serv., VAH; Peter A. Nuccio, M.D., Dept. Med., Creighton Univ. Sch. Med.; Omaha, Neb. (10226)

4992. A Study of the Liver Biopsies Performed at this Institution and Those at Wilmington VAH.

Ralph M. Myerson, M.D., Asst. Ch. Med. Serv.; Werner J. Hollendonner, M.D., Resident, Med. Serv.; Norman N. Cohen, M.D., Resident, Med. Serv.; Philadelphia, Pa. (7099)

4993. The Treatment of Hepatic Coma by Dialysance with the MacNeill Collins Artificial Kidney.

John Kotakis, M.D., Resident, Med. Serv.; Ralph M. Myerson, M.D., Asst. Ch. Med. Serv., VAH; William J. Snape, M.D., Cons. Med., VAH, Asst. Prof. Clin. Med., Jefferson Med Coll.; Philadelphia, Pa. (7123)

4994. The Incidence and Etiology of Arterial Oxygen Unsaturation in Laennec's Cirrhosis.

Bernard H. Pastor, M.D., Ch. Cardiovasc. Sect.; Henry P. Close, M.D., Ch. Med. Serv.; Theodore Rodman, M.D., Staff Phys. Cardiopulm. Func. Lab.; Melvin Sobel, M.D., Resident Med.; Philadelphia, Pa. (7124)

4995. The Determination of the Limits of the Acid Output in Hospital "Normals."

I. Nathan Marks, M.D., Instr. Intern. Med., Temple Univ. Sch. of Med. and Hosp.; Ralph M. Myerson, M.D., Asst. Ch. Med. Serv., VAH; Philadelphia, Pa. (8752)

4996. The Investigation of the Irritating Effect of Intramuscular Erythromycin Ethyl Succinate.

Melvin Sobel, M.D., Resident, Med. Serv.; Ralph M. Myerson, M.D., Asst. Ch. Med. Serv.; Philadelphia, Pa. (8943)

4997. Clinical Investigation of the Physiological Action of Cholecystokinin.

Ralph M. Myerson, M.D., Asst. Ch. Med. Serv.; George T. Wohl, M.D., Ch. Radiol. Serv.; William J. Snape, M.D., Cons. Med.; Joseph L. Rabinowitz, Ph. D., Dir. Research and Develop. RI Serv., VAH; M. H. F. Friedman, Ph. D., Prof. Dept. Phy., Jefferson Med. Coll.; Philadelphia, Pa. (8947)

4998. The Diuretic Effect of S. Q. 10,014 in Patients with Ascites Due to Cirrhosis of the Liver.

Richard Berkowitz, M.D., Resident Med. Serv.; Ralph M. Myerson, M.D., Asst. Ch. Med. Serv.; Philadelphia, Pa. (8757)

4999. A Clinical Investigation of a New Diuretic 3-Benzyl Dihydroflumethiazide (Be. 724–A).

Ralph M. Myerson, M.D., Asst. Ch. Med. Serv., Asst. Dir. Prof. Serv. for Research; Bernard H. Pastor, M.D., Ch. Cardiovasc. Sec.; Entire Med. Resident Staff; Philadelphia, Pa. (9949)

5000. The Study of Gallbladder Physiology with Particular Reference to the Demonstration of the Common Bile Duct System.

George T. Wohl, M.D., Ch. Radiol. Serv., Ch. RI Serv.; Ralph M. Myerson, M.D., Asst. Ch. Med. Serv., Asst. Dir. Prof. Serv. for Research; William J. Snape, M.D., Cons. Med. VAH, Asst. Prof. Clin. Med., Jefferson Med. Coll.; Philadelphia, Pa. (9950)

5001. Studies of Hepatic Vascular Dynamics: A Pilot Project.

Dr. Robert A. Wise, Ch. Surg.; Dr. Ralph D. Robertson, Surg. Resident; Portland, Oreg. (8741)

5002. Studies on the Effect of Psychologically Stressful Movies on Gastric Acid Secretion in Ulcer and Non-Ulcer Patients.

Marvin C. Goldman, M.D., Sec. Ch. GI; Portland, Oreg. (9223)

5003. Proposed to Study Pancreatic Function by Use of Pellets of Barium, Coated With Fat, Protein or Starch Which May Be Followed in the Course Through the Gastrointestinal Tract With Fluoroscopy.

Ben C. Claunch, M.D., Staff Phys.; John D. Eyre, M.D., Staff Phys.; Bernard J. Mulligan, Bact.; Providence, R.I. (7168)

5004. The Effect of Mannitol Diuresis on Sodium Excretion in Patients With Cirrhosis of the Liver, With Edema and Ascites.

Allan M. Unger, M.D., Attend. Phys., Med. Serv., VAH, Asst. Prof. Med., Med. Coll. Virginia; Joseph H. Magee, M.D., Act. Asst. Ch. Cord Injury Serv., VAH; Benjamin B. Weisiger, M.D., Ch. GI Sec.; David W. Richardson, M.D., Asst. Dir. Prof. Serv for Research; Richmond, Va. (7186)

5005. An Evaluation of Uropepsinogen by the Casein Method.

Benjamin B. Weisiger, M.D., Ch., GI Sec.; W. T. Thompson, Jr., M.D., Ch. Med. Serv.; Richmond, Va. (7202)

5006. Variation in Sensitivity of Gum Guaiac Preparations.

A. L. Rosenzweig, M.S., Bact., Clin. Lab.; Richmond, Va. (7218)

5007. Coagulation Defects in Laennec's Cirrhosis.

William N. Gee, Jr., M.D., Resident, GI Sec., VAH; Henry G. Kupfer, M.D., Cons. Clin. Path., VAH, Prof. Dept. Clin. Path., Med. Coll. of Va.; Richmond, Va. (9920)

5008. The Value of the Serum Leucine Aminopeptidase in Liver and Pancreatic Disease.

Benjamin B. Weisiger, M.D., Ch. GI Sec.; Richmond, Va. (9921)

5009. Value of Serum Trypsin Activity as a Pancreatic Test.

Irvin Robinson, M.D., Resident, GI Sec.; Richmond, Va. (9922)

5010. Chronic Pancreatic Insufficiency (Duodenal Exocrine Secretin and Serum Amylase Relationships).

Benjamin B. Weisiger, M.D., Ch. GI Sec.; Richmond, Va. (9923)

5011. Radioactive (I-131-labeled) Triolein and Oleic Acid Uptake Studies.

Benjamin B. Weisiger, III, M.D., Ch. GI Sec.; Richmond, Va. (9924)

5012. The Schwartzman Reaction in the Study of Ulcerative Colitis.

Richard M. Marks, M.D.; San Fernando, Calif. (10604)

5013. Culturing of Endamoeba Histolytica While Simultaneously Making a Thorough Search for the Parasite by the Direct and Concentration Methods.

Thomas V. Feichtmeir, M.D., Ch. Clin. Path. Serv.; W. R. King, Med. Tech.; San Francisco, Calif. (7437)

5014. A Study of Medical Management in Gastric Ulcer.

Lonnie R. Bristow, M.D., Resident Med.; San Francisco, Calif. (9780)

5015. Gallbladder Function in Viral Hepatitis.

F. Hernández-Morales, M.D., Cons. VAH, Prof. Clin. Med.-Gastroenter., Univ. of Puerto Rico Sch. of Med.; José A. De Jesús, M.D., Ch. GI Sec., VAC; Lazslo Ehrlich, M.D., Ch. X-Ray Serv.; R. Rodríguez-Molina, M.D., Asst. Dir. Prof. Serv. for Research; San Juan, P.R. (7480)

5016. Electroencephalographic Studies in Cirrhosis of the Liver.
José A. De Jesús, M.D., Ch. GI Sec.; San Juan, P.R. (7487)

5017. Effect of a Modified Banana Diet on Intractable Ascites.
Dr. Juan M. Becerra, Intermed. Resident, Med. Serv.; Dr. José A. De Jesús, Act. Ch. GI and Allergy Sec.; Marta Cancio, Ph. D., Super. Biochem., Med. Research Lab.; Mrs. Ada Montalvo de Irizarry, Research Diet., Med. Research Lab.; San Juan, P.R. (11040)

5018. Physiology of the Enema.
Robert E. Mullarky, M.D.; Robert S. Evans, M.D., Ch. Med. Serv.; Seattle, Wash. (8816)

5019. Comparative Effects of Hydrochlorothiazide and Chlorothiazide on Blood Ammonia and Electrolyte Balance in Cirrhotic Patients.
Robert S. Evans, M.D., Ch. Med. Serv., VAH; Belding H. Scribner, M.D., Assoc. Prof. Med., Univ. of Washington; George J. Magid, M.D., Clin. Instr. Med., Univ. of Washington; Seattle, Wash. (9245)

5020. Mechanism of Dioctyl Potassium Sulfosuccinate.
E. Q. King, M.D., Ph. D., Staff Phys.; L. M. Hall, M.D., Staff Phys., VAH; Ralph Goldman, M.D., Cons., VAH, Assoc. Clin. Prof. Med., Univ. of California at Los Angeles; Michael Ordanik, Ph. D., Bact., VAH; Sepulveda, Calif. (7522)

5021. The Effect of Salicylates on Gastric Secretion.
Philip Kramer, M.D., Staff Phys.; Syracuse, N.Y. (7791)

5022. The Gastric Secretory Patterns of Patients With Reflux Esophagitis.
Philip Kramer, M.D., Staff Phys.; Syracuse, N.Y. (7792)

5023. Effect of Chlorathiazide on Gastric Secretion.
Philip Kramer, M.D., Staff Phys.; Syracuse, N.Y. (7793)

5024. Gastric Secretion in Patients With Chronic Pulmonary Emphysema.
Philip Kramer, M.D., Staff Phys.; Syracuse, N.Y. (7794)

5025. Gastric Secretion in Patients with Cirrhosis of the Liver.
John H. Woolridge, Jr.; Philip Kramer; Syracuse, N.Y. (7807)

5026. Evaluation of Caffeine Gastric Analysis.
Francis A. Spellman, M.D., Ch. GI Sect.; Togus, Maine. (7860)

5027. Five Year Survey of Gastric Ulcer.
Francis A. Spellman, M.D., Ch. GI Sect.; Togus, Maine. (7861)

5028. Neomycin.
Francis A. Spellman, M.D., Ch. GI Sect.; Irving J. Poliner, M.D., Cons.; Togus, Maine. (10537)

5029. The Influence of Hemoglobin Levels and/or Iron Levels on Gastric Hydrogen Iron Secretion.

Francis A. Spellman, M.D., Ch. GI Sect.; Irving J. Poliner, M.D., Cons. GI; Togus, Maine. (10538)

5030. Pilot Study Using Repeated Intravenous Injections of Gum Acacia in Rabbits.

Roger G. Metcalf, M.D., Ward Phys.; Togus, Maine. (10359)

5031. Correlation of Serum Glutamic-Oxaloacetic Transaminase with Necrosis in Liver Revealed by Needle Biopsies.

Samuel Zelman, M.D., Med. Serv.; Topeka, Kans. (7890)

5032. Clinical Aspects of Ammonia Tolerance in Liver Disease.

Harold O. Conn, M.D., Clin. Invest.; West Haven, Conn. (8071)

5033. Further Studies on Calcium Metabolism in Peptic Ulcer.

T. A. Warthin, M.D., Ch. Med. Serv.; West Roxbury, Mass. (8172)

5034. Regional Enteritis.

T. A. Warthin, M.D., Ch. Med. Serv.; West Roxbury, Mass. (8173)

5035. Serum Pepsinogen in Peptic Ulcer Disease.

C. S. Hoar, Jr., M.D., Asst. Surg.; West Roxbury, Mass. (8176)

5036. Gastroscopic Color Photography.

Mark W. Garry, M.D., Ch. Med. Serv.; George Spuda, Asst. Ch. Med. Illus. Serv.; Wood, Wisc. (8272)

5037. Sarcoidosis Simulating Obstructive Jaundice.

Reuben Beezy, M.D., Ch. Gen. Med. Sect.; Wood, Wis. (8280)

(c) Other digestive tract diseases (surgical)

5038. Production of Experimental Ascites by Ligation of Hepatic Vein.

Edward J. Margulies, M.D., Resident, Surg. Serv.; John J. Cincotti, M.D., Ch. Gen. Surg. Sect., VAH; C. Stuart Welch, M.D., Prof. Surg., Albany Med. Center.; Albany, N.Y. (2016)

5039. The Effects of Prolonged Stasis of Blood Bolus in the GI Tract.

J. H. Cleary, M.D., Phys. Gen. Surg.; J. J. Cincotti, M.D., Ch. Gen. Surg.; J. A. Nelson, M.D., Ch. Surg. Serv.; R. A. Peabody, Ph. D., Ch. Chem. Sect. Research Lab.; C. Hurwitz, Ph. D., Ch. Research Lab.; Albany, N.Y. (8627)

5040. Study of Effects of Ileal Pouch on Diarrhea Produced by Subtotal Colectomy in Dogs.

J. H. Cleary, M.D., Phys. Surg.; M. Olf, M.D., Phys. Surg.; J. A. Nelson, M.D., Ch. Surg. Serv.; J. J. Cincotti, M.D., Ch. Gen. Surg. Sect.; Albany, N.Y. (8628)

5041. Triolein (I^{131}) Studies Pre and Post Operative.

Paul E. Hodgson, M.D., Ch. Surg. Serv., VAH; William W. Coon, M.D., Instr. Surg., Univ. of Michigan; Earl F. Wolfman, M.D., Instr. Surg., Univ. of Michigan; Charles T. Knorpp, Asst. Ch. (Scien.) RI Serv., VAH; Mary H. Rennie, RI Scien. (Radiol. Safety); Ann Arbor, Mich. (2193)

5042. Evaluation of Gastrectomy Procedures.

Marion S. DeWeese, M.D., Assoc. Prof. Surg., Univ. of Michigan; Daniel C. Hunter, M.D., Ch. East Surg. Sect., VAH; Ann Arbor, Mich. (10237)

5043. Effects of Duodenal Administration of Alcohol on the Pancreas.

J. C. Thoroughman, M.D., Ch. Surg. Serv.; J. R. Carey, M.D., Surg. Resident; James Kirkpatrick, M.D., Surg. Resident; Matthew Burns, Student Research Asst.; Robert Hornik, Student Research Asst.; Atlanta, Ga. (2235)

5044. Experimental Evaluation of Plastic Prostheses for Replacement of the Stomach.

Milton F. Bryant, Jr., M.D., Attend. Gen. Surg., VAH, Instr. Surg., Emory Univ. Sch. of Med.; James C. Thoroughman, M.D., Ch. Surg., VAH; Robert E. King, Matthew Burns Student Research Assts. in Surg.; G. W. Gingrich, M.D., Asst. Ch. Surg. Serv.; Atlanta, Ga. (2240)

5045. Experimental Evaluation of Hydrochloric Acid Injected into the Left Pleural Space.

Jack A. Thompson, M.D., Instr. Surg., Emory Univ.; James C. Coberly, M.D., Ch. RI Serv., Asst. Ch. Med. Serv., VAH; Barbara M. Covey, B.S., Biochem. RI Serv.; Atlanta, Ga. (2283)

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5046. Study of the Changes Produced in the Common Duct After Gastrectomy.

James C. Thoroughman, M.D., Ch. Surg.; John L. Brockmann, M.D., Resident Surg.; Atlanta, Ga. (8522)

5047. Study of Localized and Generalized Secondary Megacolon in Older Psychiatric Patients.

C. Martin Rhode, M.D., Ch. Surg. Serv.; Augusta, Ga. (2302)

5048. Tests for Strength of Small Bowel Stump Closures.

Richard A. Krause, M.D., Asst. Ch., Surg. Serv.; Augusta, Ga. (2303)

5049. Studies Regarding Continuous Post-Operative Decompression in Preventing Rupture of the Duodenal Stump in the Dog.

C. Martin Rhode, M.D., Ch. Surg. Serv.; Augusta, Ga. (2305)

5050. Follow-Up of Cases of Gastric Surgery.

W. F. Simpson, M.D., Dept. Surg., Med. Coll. of Alabama; R. A. Dillard, M.D., Ch. Surg. Serv., VAH; Birmingham, Ala. (2613)

5051. The Sterilization of Saliva for Use as a Culture Medium.

Frederick W. Kraus, M.D., D.M.D., Ch. Dent. Serv.; Clara J. Williams, B.S., Med. Biol. Tech.; Birmingham, Ala. (2626)

5052. Gamma Globulins in Saliva.

Frederick W. Kraus, M.D., D.M.D., Ch. Dent. Serv., VAH; Stitaya Sirisinha, B.A., B.S., Research Asst., Univ. of Ala. Med. Center; Birmingham, Ala. (9699)

5053. Incidence of Hemorrhage Associated With Diverticulitis.

D. MacGillivray, M.D., Resident, Gen. Surg.; H. Faxon, M.D., Ch. Surg.; D. V. Baker, M.D., Asst. Ch. Surg.; Boston, Mass. (2669)

5054. Diverticulitis of the Sigmoid Colon With Perforation Into the Inferior Mesenteric Vein. Case Report.

Edward T. O'Hara, M.D., Asst. Ch. Surg.; H. Faxon, M.D., Ch. Surg.; D. MacGillivray, M.D., Resident, Gen. Surg.; Boston, Mass. (2670)

5055. Diverticulitis.

D. MacGillivray, M.D., Resident, Gen. Surg.; Henry H. Faxon, M.D., Ch. Surg. Serv.; Boston, Mass. (2677)

5056. One-Stage Total Colectomy.

Edward T. O'Hara, M.D., Asst. Ch. Surg.; D. V. Baker, Jr., M.D., Asst. Ch. Surg.; Henry H. Faxon, M.D., Ch. Surg.; M. J. Donovan, Resident, Surg. Serv.; Boston, Mass. (2680)

5057. Antral Exclusion and Vagotomy in the Treatment of Peptic Esophagitis and Duodenal Ulcer.

M. K. Bartlett, M.D., Cons. Gen. Surg.; Henry H. Faxon, Ch. Surg.; Vincent Cappelluzzo, M.D., Resident, Gen. Surg.; Burrill N. Josephs, Resident, Surg.; John F. Murtaugh, Resident, Surg.; Boston, Mass. (2682)

5058. Gastrointestinal Hemorrhage from Peptic Ulcer.

J. Murtaugh, M.D., Resident, Gen. Surg.; H. Faxon, M.D., Ch. Surg.; Boston, Mass. (2704)

5059. Complications of Ileostomy and Total Cholectomy.

Edward T. O'Hara, M.D., Asst. Ch. Surg.; Henry H. Faxon, M.D., Ch. Surg.; M. J. Donovan, M.D., Resident, Surg. Serv.; Boston, Mass. (2705)

5060. Pancreatitis.

H. H. Faxon, M.D., Ch. Surg. Serv.; Cappelluzzo, V., M.D., Form. Resident, Surg. Serv.; Duncan F., Resident, Surg. Serv.; Boston, Mass. (10300)

5061. Studies Concerning the Role of Vitamin A Deficiency in the Etiology and Pathogenesis of Pancreatitis.

Frederick R. Randall, M.D., Research Assoc. Surg. Serv.; Philip Cooper, M.D., Ch. Surg. Serv.; Bronx, N.Y. (4714)

5062. Costal Intraosseous Venography in the Diagnosis of Portal Hypertension.

Robert Schobinger, M.D., Sect. Ch. Gen. Surg.; Philip Cooper, M.D. Ch. Surg. Serv.; Kenneth C. Sze, M.D., Ch. Thoracic Surg. Sect.; Joseph Stein, M.D., Ch. Radiol. Serv.; Bronx, N.Y. (4717)

5063. Reconstruction of the Cervical Esophagus in Dogs.

R. Schobinger, M.D.; P. Cooper, M.D.; K. C. Sze, M.D.; Bronx, N.Y. (4719)

5064. Long Range Follow-up of Study of Relationship of Fatty Liver to Cirrhosis.

Benjamin S. Gordon, M.D., Ch. Lab. Serv., VAH; Hans Popper, M.D., Cons. VAH, Dir. Lab., Mt. Sinai Hosp.; Fenton Schaffner, M.D., Cons. VAH, Research Assoc. GI, Mt. Sinai Hospital; Julius Wolf, M.D., Ch. Med. Serv., VAH; Bronx, N.Y. (8681)

5065. Miscellaneous Maxillo-Facial Prosthetic Devices.

Benjamin M. Hoffman, D.D.S., Staff Dent.; Bernard Roswit, M.D., Ch. Radiotherapy Serv.; Alfred Ebel, M.D., Ch. PM&R Serv.; Bronx, N.Y. (10103)

5066. Results of Subtotal Gastrectomy and Devascularization of the Stomach in Dogs.

Philip Cooper, M.D., Ch. Surg. Serv.; Herbert D. Smith, Animal Caretaker; Bronx, N.Y. (10107)

5067. Report of a Case of Spontaneous Choledocho-Duodenal Fistula, Secondary to Perforated Peptic Ulcer, and General Review of the Literature.

Bernard B. Perlman, M.D., Resident, Surg. Serv.; Bronx, N.Y. (10108)

5068. A Study of Gastric Secretion in Ulcer Patients Before and After Surgery.

John J. Kneisel, M.D., Attend., Surg. Serv.; Bronx, N.Y. (10109)

5069. Indications for Surgery in Ulcerative Colitis.

Sidney M. Fierst, M.D., Attend. VAH, Clin. Assoc. Prof. of Med., State Univ. of New York, Coll. of Med. at New York City; James B. Gabriel, M.D., Ch. GI Sec., VAH; Abraham A. Langsam, M.D., Admitting Phys., VAH; Edward Robinson, M.D., Clin. Asst. Med., State Univ. of New York, Coll. of Med. at New York City; Brooklyn, N.Y. (2869)

5070. Adaptation to Ileostomy.

Harry H. LeVeen, M.D., Ch. Surg. Serv.; Constantine Pereyma, M.D., Asst. Ch. Surg. Serv.; Kenneth Appell, M.D., Research Asst. Adj. Cancer Chemotherapy (NIH); Brooklyn, N.Y. (2907)

5071. Healing After Experimental Excision of Intestinal Mucosa.

Richmond Douglass, M.D., Ch. Surg. Serv.; Peter G. Brandetsas, M.D., Staff Surg.; William McDonough, M.D., Staff Surg.; Castle Point, N.Y. (8913)

5072. Experimental Use of Teflon in Alimentary Tract.

Richmond Douglass, M.D., Ch. Surg. Serv.; Peter G. Brandetsas, M.D., Staff Surg.; William McDonough, M.D., Staff Surg.; Castle Point, N.Y. (8915)

5073. The Administration of Intravenous Fat Emulsion to Surgical Patients.

Frederick Preston, M.D., Ch. Surg.; Charles Staley, M.D., Asst. Ch. Surg.; Otto Trippel, M.D., Ch. Gen. and PV Surg.; Chicago (Res.), Ill. (3679)

5074. A Study of Pancreatic Secretion With Reference to the Secretion of Antibiotics in Pancreatic Juice.

Milton Silverman, Ph. D., Staff, Bact. Sec.; Frederick Preston, M.D., Ch. Surg. Serv.; Chicago (Res.), Ill. (3681)

5075. A Study of the Mechanism of Postoperative Hyperbilirubinemia.

Charles Staley, M.D., Asst. Ch. Surg. Serv.; Frederick Preston, M.D., Ch. Surg. Serv.; Otto Trippel, M.D., Ch. Gen. and PV Surg.; Chicago (Res.), Ill. (3682)

5076. The Excretion of Antibiotics in Pancreatic Fluid and Bile.

Fred W. Preston, M.D., Ch. Surg. Serv.; George C. Henegar, M.D., Staff Surg.; Milton Silverman, Ph. D., Bact.; E. Neveril, M.D., Resident, Surg; Chicago (Res.), Ill. (9108)

5077. Periodiontal Survey of Patients With Mild Neuropsychiatric Disturbances.

Om Prakash Gupta, D.D.S., Asst. Prof., Dept. of Applied Materia, Medica and Therapeutics, Univ. of Ill. Sch of Dent.; Charles M. Belting, D.D.S., Asst. Ch. Dent. Tr. Center, VAH; Chicago (W.S.), Ill. (9394)

5078. A Study of the Possible Peristaltic Action of the Common Duct by Means of Cineradiography.

Melvin I. Gibbel, M.D., Ch. Surg. Serv.; Milton L. Goldberg, M.D., Asst. Ch. Surg. Serv.; Nathaniel P. McParland, M.D., Resident, Surg. Serv.; Samuel A. Leader, M.D., Ch. RI Serv.; Chicago (W.S.), Ill. (9398)

5079. Study of Enhancement of Small Bowel Absorption With Intestinal Recirculation.

Mark W. Wolcott, M.D., Ch. Surg. Serv.; H. Clinton Davis, M.D., Attend. Special. Gen. Surg., VAH, Clin. Asst. Prof. Gen. Surg., Univ. Miami Sch. of Med.; Harold K. Golder, M.D., Resident, Gen. Surg.; Coral Gables, Fla. (3228)

5080. Review of all Liver Biopsies Since 1947 When the Procedure Was Instituted at This Hospital.

William Matre, M.D.; Dayton, Ohio. (3386)

5081. Ulcerative Colitis, Review of Collected Cases.

Roy W. Kenney, M.D., Resident Surg.; Dayton, Ohio. (12033)

5082. Sarcoma of the Gallbladder, A Case Report.

Philip L. Fuson, M.D., Resident Surg.; Dayton, Ohio. (12036)

5083. Results of Duodenal Ulcer Surgery at VA Center Hospital, Dayton, Ohio.

Thomas D. Burleigh, M.D., Resident Surg.; Dayton, Ohio. (12046)

5084. Biliary Tract Disease in the Elderly Male.

George H. Rawls, M.D., Resident Surg.; Dayton, Ohio. (12052)

5085. Evaluation of Clinical Usefulness of Serum Glutamic Oxaloacetic-Transaminase and Serum Iron Determinations in Defferential Diagnosis of Medical and Surgical Jaundice.

William J. Matre, M.D., Ch. GI Sect.; Dayton, Ohio. (12058)

5086. Gastric Polyposis With Gastroduodenal Intussusception.

Xavier J. Riccobono, M.D., Radiol.; Richard M. Haskins, M.D., Resident Radiol.; Dayton, Ohio. (12059)

5087. Studies on Metabolism of Animals With Transposition of the Portal Vein and Vena Cava (Formerly Studies in Ammonia Metabolism).

W. Silen, M.D., Asst. Ch. Surg. Serv.; B. Eiseman, M.D., Ch. Surg. Serv.; Denver, Colo. (3484)

5088. The Investigation of the Sphincter of Oddi Tone Following Experimental Sphincterotomy.

B. Eiseman, M.D., Ch. Surg. Serv.; W. H. Brown, M.D., Surg. Resident; Denver, Colo. (3490)

5089. Effect of Foetuin on Tensile Strength of Healing Wounds in Rats.

B. Eiseman, M.D., Ch. Surg. Serv.; H. A. McColl, Jr., M.D., Surg. Resident; Denver, Colo. (9462)

5090. Hepatic Vein Occlusion.

W. Silen, M.D., Asst. Ch. Med. Serv.; D. Dean, M.D., Resident Surg.; T. Bartley, M.D., Resident in Surg.; Denver, Colo. (9463)

5091. Extensive Follow-up Studies on the Physiological Disturbances and Radiologic Changes Occurring in Cases of Vagotomy; Vagotomy and Partial Gastrectomy Combined; Partial Gastrectomy; Total Gastrectomy.

Louis T. Palumbo, M.D., Ch. Surg. Serv.; Paul Trier, M.D., Ch. X-ray Dept.; Wendell S. Sharpe, M.D., Sect. Ch. Gen. Surg.; Des Moines, Iowa. (3525)

5092. Continued Evaluation of the Results of Antecolic Anastomosis in Cases of Partial Gastrectomy for Peptic Ulcer.

Louis T. Palumbo, M.D., Ch. Surg. Serv.; Paul Trier, M.D., Ch. X-ray Serv.; Des Moines, Iowa. (3535)

5093. Total Gastrectomy.

Louis T. Palumbo, M.D., Ch. Surg. Serv.; Juan Colon-Bonet, M.D., Asst. Sect. Ch. Gen. Surg.; Raymond Vespa, M.D., Asst. Sect. Ch. Gen. Surg.; Wendell S. Sharpe, M.D., Asst. Sect. Ch. Gen. Surg.; Des Moines, Iowa. (3536)

5094. Postoperative Pancreatitis as a Complication Following Surgery.

Louis T. Palumbo, M.D., Ch. Surg. Serv.; Wendell S. Sharpe, M.D., Sect. Ch. Gen. Surg.; Des Moines, Iowa. (8546)

5095. Antrectomy With Vagectomy or Partial Gastrectomy for Chronic Duodenal Ulcer—A Comparative Analysis.

Louis T. Palumbo, M.D., Ch. Surg. Serv.; Wendell S. Sharpe, M.D., Asst. Ch. Surg. Serv.; Donald J. Lulu, M.D., Asst. Sec. Ch. Gen. Surg.; Raymond Vespa, M.D., Asst. Sec. Ch. Gen. Surg.; Juan Colon-Bonet, M.D., Asst. Sec. Ch. Gen. Surg.; Des Moines, Iowa. (9349)

5096. A Comparative Analysis: Antrectomy With Vagectomy or Partial Gastrectomy With or Without Vagectomy for Chronic Duodenal Ulcer.

Louis T. Palumbo, M.D., Ch. Surg. Serv.; Wendell S. Sharpe, M.D., Asst. Ch. Surg. Serv.; Donald J. Lulu, M.D., Asst. Sec. Ch. Gen. Surg.; Raymond Vespa, M.D., Asst. Sec. Ch. Gen. Surg.; Juan Colon-Bonet, M.D., Asst. Sec. Ch. Gen. Surg.; Des Moines, Iowa. (9350)

5097. A Comparative Analysis: Antrectomy With Vagectomy or Partial Gastrectomy With Vagectomy for Chronic Duodenal Ulcer.

Louis T. Palumbo, M.D., Ch. Surg. Serv.; Wendell S. Sharpe, M.D., Asst. Ch. Surg. Serv.; Donald J. Lulu, M.D.; Asst. Sec. Ch. Gen. Surg.; Raymond Vespa, M.D., Asst. Sec. Ch. Gen. Surg.; Juan Colon-Bonet, M.D., Asst. Sec. Ch. Gen. Surg.; Des Moines, Iowa. (9351)

5098. Segal Oral Test for Gastric Acidity—A Comparative Analysis.

Louis T. Palumbo, M.D., Ch. Surg. Serv.; Frank W. Thomas, M.D., Resident, Gen. Surg.; Wendell S. Sharpe, M.D., Asst. Ch. Surg. Serv.; Des Moines, Iowa. (9352)

5099. Double Blind Study of the Results in the Use of Altafur.

Louis T. Palumbo, M.D., Ch. Surg. Serv.; Melvin H. Bloom, M.D.; Resident Gen. Surg.; Wendell S. Sharpe, M.D., Asst. Ch. Surg. Serv.; Des Moines, Iowa. (9353)

5100. Operative Direct Cholangiography.

Louis T. Palumbo, M.D., Ch. Surg. Serv.; Howard R. Porter, M.D., Resident Gen. Surg.; Des Moines, Iowa. (9354)

5101. Double Blind Study of the Results in the Use of Cozyme.

Louis T. Palumbo, M.D., Ch. Surg. Serv.; Howard R. Porter, M.D., Resident Gen. Surg.; Des Moines, Iowa. (9355)

5102. Comparative Results of Various Procedures in the Treatment of Benign Upper Gastrointestinal Ulcers in Ten-Year Period.

Louis T. Palumbo, M.D., Ch. Surg. Serv.; Wendell S. Sharpe, M.D., Asst. Ch. Surg. Serv.; Donald J. Lulu, M.D., Asst. Sec. Ch. Gen. Surg.; Raymond Vespa, M.D., Asst. Sec. Ch. Gen. Surg.; Juan Colon-Bonet, M.D., Asst. Sec. Ch. Gen. Surg.; Des Moines, Iowa. (9356)

5103. Peptic Ulcer.

R. W. Postlethwait, M.D., Ch. Surg. Serv.; Marcus L. Dillon, M.D., Asst. Ch. Surg. Serv.; Durham, N.C. (3911)

5104. An Investigation of the Predictability of Outcome of Gastrectomy.

Joseph B. Parker, Jr., M.D., Ch. Psychiat. Serv.; William P. Wilson, M.D., Psychiat, VAH; Mary G. Clarke, Ph. D., Clin. Psychol., Duke Univ.; Durham, N.C. (3943)

5105. Absorption of Ascitic Fluid by Illeo-Entectropy.

George Majnarich, M.D., Resident, Surg. Serv.; Albert H. Levy, M.D., Ch. Surg. Serv.; East Orange, N.J. (4015)

5106. Retrograde Surgical Drainage of the Pancreas for Chronic Relapsing Pancreatitis.

Charles B. Puestow, M.D., Ch. Surg. Serv.; William J. Gillesby, M.D., Asst. Ch. Surg. Serv.; Hines, Ill. (4254)

5107. Evaluation of the Medical Treatment of Bleeding Peptic Ulcer (1954–57 Inclusive).

John J. Martin, Jr., M.D., Staff Phys.; Houston, Tex. (4375)

5108. The Significance of the Abnormal Cholecystogram.

George L. Jordan, Jr., M.D., Ch. Surg. Serv.; Harry L. Barton, M.D., Ch. Radiol. Serv.; Houston, Tex. (4413)

5109. The Effect of Acid upon Duodenal Mucosa Grown in Tissue Culture.

George L. Jordan, Jr., M.D., Ch. Surg. Serv.; Ethel E. Erickson, M.D., Asst. Ch. Path. Serv.; Houston, Tex. (10944)

5110. Improvement-confirmation Study on Post-Gastrectomy Syndrome and Related Nutritional Abnormalities.

Adelle C. Pittman, Ch. Nutrition Clinic, VARO, Houston, Tex.; Fred W. Robinson, M.D., Asst. Ch. Surg. Serv., VAH; North Little Rock, Ark. (4471)

5111. Analysis of 250 Gastrectomies for Ulcer.

R. L. Bradley, M.D., Ch. Surg. Serv.; E. L. Walsh, M.D., Ch. Med. Serv.; M. M. Klein, M.D., Ch. Radiol. Serv.; Huntington, W. Va. (4805)

5112. Experimental Study of "Dumping".

R. L. Bradley, M.D., Ch. Surg. Serv.; E. H. Short, M.D., Asst. Ch. Surg. Serv.; Huntington, W. Va. (4807)

5113. Experimental Repair of Transected Common Bile Duct.

E. H. Short, M.D., Asst. Ch. Surg. Serv.; Huntington, W. Va. (4808)

5114. Prevention of Post-Gastrectomy Syndrome—An Experimental Study.

R. L. Bradley, M.D., Ch. Surg. Serv.; Huntington, W. Va. (4809)

5115. Proximal Resection of Gastric Ulcer to Prevent Dumping.

Robert L. Bradley, M.D., Ch. Surg. Serv.; Eugene H. Short, M.D., Asst. Ch. Surg. Serv.; Huntington, W. Va. (4810)

5116. Incidence of Specific Blood Groups in Patients With Cancer of the Stomach, Gastric Ulcer and Duodenal Ulcer.

E. L. Walsh, M.D., Ch. Med. Serv.; W. T. Whitman, A.B., Ch. Hemat. Serol. Unit, Lab. Serv.; A. J. Beaumont, B.S., Ch. Clin. Microscopy and Microbiol. Unit, Lab. Serv.; Huntington, W. Va. (4824)

5117. Cystogastrostomy for Pancreatic Cyst.

Robert L. Bradley, M.D., Ch. Surg. Serv.; Eugene H. Short, M.D., Asst. Ch. Surg. Serv.; Huntington, W. Va. (8819)

5118. Perforated Peptic Ulcer.

Robert L. Bradley, M.D., Ch. Surg. Serv.; Eugene H. Short, M.D., Asst. Ch. Surg. Serv.; Huntington, W. Va. (8820)

5119. Study of Hepatic Coma and a Factor in Its Etiology.

Emil Gribovsky, M.D., Ward Phys.; John W. Daulton, Med. Tech.; Huntington, W. Va. (10877)

5120. Treatment of Volvulus of Sigmoid.

Robert L. Bradley, M.D., Ch. Surg. Serv.; Huntington, W. Va. (10878)

5121. Appendicitis in the Elderly Patient.

Robert L. Bradley, M.D., Ch. Surg. Serv.; Michael M. Klein, M.D., Ch. Radiol. Serv.; Huntington, W. Va. (10881)

5122. Perforated Peptic Ulcer.

Robert L. Bradley, M.D., Ch. Surg. Serv.; Eugene H. Short, M.D., Asst. Ch. Surg. Serv.; Huntington, W. Va. (10884)

5123. Billroth I Gastrectomy With Proximal Anastomosis for Duodenal Ulcer (Fundectomy).

R. L. Bradley, M.D., Ch. Surg. Serv.; Huntington, W. Va. (10879)

5124. Hepato-Enteric Fistula in Common Bile Duct Stenosis.

Eugene H. Short, M.D., Asst. Ch. Surg. Serv.; Huntington, W. Va. (10880)

5125. Cystogastrostomy for Pancreatic Cyst.

Robert L. Bradley, M.D., Ch. Surg. Serv.; Eugene H. Short, M.D., Asst. Ch. Surg. Serv.; Michael M. Klein, M.D., Ch. Radiol. Serv.; Huntington, W. Va. (10885)

5126. Evaluation of Surgical Treatment of Peptic Ulcer Patients.

Robert E. Lempke, M.D., Asst. Ch. Surg. Serv.; Indianapolis, Ind. (4771)

5127. Acid-Peptic Digestion in the Perfused Rabbit Esophagus.

Robert E. Lempke, M.D., Asst. Ch. Surg. Serv.; Indianapolis, Ind. (4772)

5128. A Study of the Physiology of Brunner's Glands.

Robert E. Lempke, M.D., Asst. Ch. Surg. Serv.; Indianapolis, Ind. (4773)

5129. Peptic Hydrolysis of Hemoglobin Substrate.

Sidney Davis, M.A., Biochem.; Indianapolis, Ind. (4782)

5130. The Sphincter of Oddi and Gallbladder Function.

Robert E. Lempke, M.D., Asst. Ch. Surg. Serv.; Indianapolis, Ind. (9129)

5131. Cirrhosis With Hemorrhage.

Frederic W. Taylor, M.D., Cons. Surg., VAH, Prof. Surg., Indiana; Joe G. Jontz, M.D., Resident Surg., VAH; Indianapolis, Ind. (10897)

5132. Autonomic Neurectomy for Duodenal Ulcer.

Edgar S. Brintnall, M.D., Ch. Surg. Serv.; Iowa City, Iowa. (4858)

5133. Detailed Anatomy of Esophageal Hiatus.

Richard L. Lawton, M.D., Surg.; Robert A. Conklin, M.D., Resident, Dept. Surg.; Iowa City, Iowa. (4861)

5134. Plasma Catalase Levels in Jaundice.

J. V. Cockrell, M.D., Dir. Prof. Serv. VAC; Jackson, Miss.; Hans N. Naumann, M.D., Path., VAH, Memphis, Tenn; W. W. Correll, Biochem., VAC; Jackson, Miss. (10916)

5135. Experimental Observations Upon the Effect of Complete Arterialization of the Liver Upon Liver Functions and Liver Regeneration.

Charles E. Guice, M.D., Staff Surg.; Albert L. Meena, M.D., Resident, Surg. Serv.; Jackson, Miss. (10917)

5136. The Experimental Creation of Cirrhosis in Dogs and Attempts at Creating a Portal Hypertension With Subsequent Observations Upon the Effects of Various Shunts Including Aorta Portal Upon Liver Function and Regeneration.

Charles E. Guice, M.D., Staff Surg.; Albert L. Meena, M.D., Resident, Surg. Serv.; Jackson, Miss. (10918)

5137. Experimentally Produced Intestinal Closed Loop Obstruction: Increased Survival Time in Dogs Following Use of Atropine.

William R. Fain, M.D., Asst. Ch. Dept. Orth.; J. Harold Conn, M.D., Ch. Surg. Serv., VAC; Manson Don Turner, M.D., Asst. Prof., Dept. Biochem., Univ. of Miss.; Jackson, Miss. (10919)

5138. Re-Evaluation of Vagotomy and Conservative Resection of Gastric Ulcer.

Glenn A. Young, M.D., Asst. Ch. Surg. Serv.; Long Beach, Calif. (5183)

5139. Vagotomy.

J. A. Weinberg, M.D., Ch. Surg. Serv.; Long Beach, Calif. (5186)

5140. The Problem of Intractable Duodenal Ulcer. Part II: Effect of Vagotomy-Pyloroplasty in Intractable Duodenal Ulcer.

Stephen J. Stempien, M.D., Ch. GI. Sect.; Angelo Dagradi, M.D., Asst. Ch. GI. Sec.; Long Beach, Calif. (10784)

5141. Studies on Temporary Liver Inflow Occlusion.

James S. Clarke, M.D., Ch. Surg. Serv.; Paul K. McKissock, M.D., Resident Surg.; Ira Miller, M.D., Resident Surg.; Los Angeles, Calif. (5756)

5142. The Relation of the Liver to Inactivation of Gastrin.

James S. Clarke, M.D., Ch. Surg. Serv.; Paul K. McKissock, M.D., Resident Surg.; Ira Miller, M.D., Resident Surg.; Los Angeles, Calif. (5759)

5143. Experimental Study of Acute and Chronic Pancreatitis.

Theodore Shohl, M.D., Ch. Phys.; Los Angeles, Calif. (5761)

5144. Gastric Secretion in the Fasting State and After Antral Stimulation in Patients with Cirrhosis and with Portacaval Shunts.

James S. Clarke, M.D., Ch. Surg. Serv., Los Angeles, Calif. (5773)

5145. Evaluation of New Antispasmodic Drug.

W. E. Goodwin, M.D., Sec. Ch. Urol.; J. S. Hirsh, M.D., Sr. Resident Urol.; Los Angeles, Calif. (5777)

5146. Vagotomy and Antrectomy versus Sub-Total Gastrectomy in the Treatment of Duodenal Ulcer.

Joseph E. Hamilton, M.D., Ch. Surg. Serv.; Phil J. Harbrecht, M.D., Asst. Ch. Surg. Serv., Louisville, Ky. (5441)

5147. Peptic Esophagitis: A Clinical and Laboratory Study.

Joseph E. Hamilton, M.D., Ch. Surg. Serv.; Louisville, Ky. (5442)

5148. Reappraisal of the Treatment of Acute Perforated Ulcer.

Phil J. Harbrecht, M.D., Asst. Ch. Surg. Serv.; Joseph E. Hamilton, M.D., Ch. Surg. Serv., VAH; Blaine Lewis, Jr., M.D., Attend. Surg., VAH, Instr. Surg., Univ. Louisville Sch. Med.; Louisville, Ky. (5453)

5149. An Alternating Blind Comparative Study of Vagotomy Plus an Emptying Procedure Versus Subtotal Gastrectomy.

Joseph E. Hamilton, M.D., Ch. Surg. Serv.; Louisville, Ky. (10752)

5150. Bleeding Brunner Gland Adenoma of Duodenum Simulating Duodenal Ulcer.

Giles L. Stephens, M.D., Resident Surg.; Phil J. Harbrecht, M.D., Asst. Ch. Surg. Serv.; Louisville, Ky. (10753)

5151. The Effect of a Reversed Ileal Segment in the Gastrectomized Dog.

W. G. Gobbel, Jr., M.D., Asst. Ch. Surg.; R. E. Wiederanders, M.D., Resident Surg.; R. I. Carlson, M.D., Ch. Surg.; W. L. Taylor, M.D., Resident Surg.; Nashville, Tenn. (5398)

5152. Experimental Choledochojejunoduodenostomy.

Jack W. Davis, Tech. Lab. Serv.; Joseph M. Young, M.D., Ch. Lab. Serv.; Memphis, Tenn. (6055)

5153. Volvulus of the Sigmoid.

Ralph F. Bowers, M.D., Ch. Surg. Serv.; Memphis, Tenn. (10481)

5154. Psychological and Surgical Variables in Subtotal Gastrectomies.

Arnold D. Krugman, Ph. D., Ch. Clin. Psychol. Serv.; Isabella Harrison, M.D., Ch. Surg. Serv.; Martinsburg, W. Va. (5897)

5155. Segmental Gastrectomy With Innervated Antrum for Duodenal Ulcer.

Donald J. Ferguson, M.D., Ph. D., Ch. Surg. Serv.; Don P. Swensen, M.D., Resid. Surg. Serv.; Minneapolis, Minn. (6213)

5156. The Effect of Denervation on Gastric Antrum Function.

Donald E. Wohlrabe, M.D., Resid. Surg. Serv.; William D. Kelly, M.D., Ph. D., Dir. Lab. of Exper. Surg.; Minneapolis, Minn. (6223)

5157. Preparation of Totally Denervated Gastric Pouches.

James W. Merritt, M.D., Resident, Surg. Serv.; William D. Kelly, M.D., Ph. D., Dir. Lab. Exper. Surg.; Minneapolis, Minn. (6226)

5158. The Induction of Atrophic Changes in Gastric Mucous Membrane by Immunologic Methods.

William D. Kelly, M.D., Ph. D., Dir. Lab. Experiment. Surg.; Minneapolis, Minn. (8900)

5159. The Effect of Vagus Nerve Stimulation on Gastrin Release by the Antrum.

Riley D. Woodson, M.D., Resident, Surg. Serv.; David E. Raab, M.D., Resident, Surg. Serv.; William D. Kelly, M.D., Ph. D., Dir. Lab. Experiment. Surg.; Minneapolis, Minn. (8902)

5160. A Study of Difference in Fat Absorption Following Oral and Jejunal Administration I^{131} Labeled "Fat".

W. G. Gobbel, Jr. M.D., Ch. Surg. Serv.; H.H. Shoulders, Jr., M.D., Asst. Ch. Surg. Serv.; Nashville, Tenn. (5405)

5161. Effect of Antibiotics on Adhesion Formation in Peritoneal Cavity.

Kenneth L. Classen, M.D., Senior Asst. Resident Surg.; R. E. Wiederanders, M.D., Surg. Serv.; R. I. Carlson, M.D., Ch. Surg. Serv.; Nashville, Tenn. (9977)

5162. Duodenal Distention as a Factor in the Etiology of Pancreatitis.

Terry T. Rees, M.D., Surg. Staff; J. Kenneth Jacobs, M.D., Surg. Staff; Nashville, Tenn. (9978)

5163. The Production, Prevention, and Treatment of Peptic Ulcers in Dogs.

William F. MacFee, M.D., Ch. Surg. Serv.; Louis D. Browning, Jr., M.D., Ch. Gen. Surg. Sec.; New York, N.Y. (6519)

5164. Study and Analysis of Mortality of Gastric Resection for Duodenal Ulcer.

Stanley H. Schonberger, M.D., Asst. Ch. Surg. Serv.; Oakland, Calif. (6650)

5165. Effects of Sphincter Dilatation, Sphincterotomy and Various Biliary Shunting Procedures on the Dynamics of the Biliary Tree.

Rene B. Menguy, M.D., Staff Surg.; Oklahoma City, Okla. (6917)

5166. The Effect of Pancreatectomy on the Incidence of Gastric Ulceration in the Shay Rat.

Rene B. Menguy, M.D., Asst. Ch. Surg. Serv. VAH; Merlin K. DuVal, M.D., Asst. Prof. Surg., Oklahoma University Medical School; Oklahoma City, Okla. (6919)

5167. Postgastrectomy Follow-up.

Edward A. McCune, M.D., Resident Surg.; Rene B. Menguy, M.D., Staff Surg.; Oklahoma City, Okla. (6922)

5168. Hiatus Hernia.

William P. Kleitsch, M.D., Ch. Surg. Serv.; Omaha, Nebr. (6735)

5169. Hepatic Function Studies Using Tetra-iodo-tetra-chlor-fluorescin.

Richard E. Ogborn, M.D., Ch. RI Serv.; Joseph M. Holthaus, M.D., Ch. Med. Serv.; Arthur L. Dunn, Ph. D., Asst. Ch. Scien., RI Serv.; Alan J. Blotcky, B. S., Asst. Ch. RI Serv.; Omaha, Nebr. (6783)

5170. Pleuro-Esophageal Fistula as a Complication of Thoracic Surgery.

Timothy Takaro, M.D., Ch. Cardiovasc. Sec.; Harry E. Walkup, M.D., Ch. Surg. Serv.; Takeshi Okano, M.D., Ch. Gen. Surg. Serv.; Oteen, N.C. (6699)

5171. Evaluation of "Varemoid" in the Treatment of Hemorrhoids.

Oscar Serlin, M.D., Ch. Surg. Serv.; Philadelphia, Pa. (8758)

5172. Determination of the Electrolyte Content of Gastro-Intestinal Drainage.

John Dzwonczyk, M.D., Resident, Surg. Serv.; William A. Nixon, M.D., Resident, Surg. Serv.; Joseph J. Voytek, M.D., Resident, Surg. Serv.; Oscar Serlin, M.D., Ch. Surg. Serv.; Philadelphia, Pa. (8945)

5173. Post-Gastrectomy Syndrome; the Use of Sugar Substitutes.

Hyman Lieber, M.D., Ch. Surg. Serv.; Phoenix, Ariz. (6989)

5174. Measurement of the Sphincter Pressure at the First Esophageal Narrows (The "Cravatte Pharyngien") by Using Transducers.

Hubert J. Adler, M.D., Ch. ENT Serv.; Phoenix, Ariz. (10631)

5175. Determination of Psychiatric Factors & Prognosis of Surgically Treated Peptic Ulcer Cases.

John D. Morgan, M.D., Ch. Psychol. Serv.; John G. Watkins, Ph. D., Ch. Clin. Psychol.; Colin M. Slade, Ph. D., Clin. Psychol.; Portland, Oreg. (7159)

5176. Post-Operative Follow-Up of Patients With 50% Gastric Resection and Vagotomy for Duodenal Ulcer.

Harold W. Harrower, M.D., Ch. Surg. Serv.; Providence, R.I. (7173)

5177. Etiology of Increased Gastric Hydrochloric Acid Secretion and Total Diversion of Portal Blood in Dogs.

Charles J. Galbraith, M.D., Dir. St. Louis Univ. Sec. Surg., St. Louis Univ. Sch. Med.; L. V. Mulligan, M.D., Cons. VAH, Assoc. Prof. Clin. Surg., St. Louis Univ. Sch. Med.; St. Louis, Mo. (7686)

5178. A Comparison of the Effect of Surgery on Glucose Metabolism and Its Relationship to the Postgastrectomy Syndrome.

Richard G. Devereaux, M.D., Resident Med.; San Francisco, Calif. (8493)

5179. The Coincidental Occurrence of Esophageal Varices in Patients With Peptic Ulcer.

José A. De Jesús, M.D., Ch. GI Sect.; San Juan, P.R. (7485)

5180. The Electroencephalogram in Peptic Ulcer.

José A. De Jesús, M.D., Ch. GI Sect.; San Juan, P.R. (7486)

5181. Complications Following Gastric Surgery for Duodenal Ulcer.

Luis A. Passalacqua, M.D., Ch. Surg. Serv.; Héctor M. Nadal, M.D., Ward Officer, Surg. Serv.; José M. Rigau, M.D., Senior Resident Gen. Surg.; Gilberto Rodríguez, M.D., Intermed. Resident Surg.; San Juan, P.R. (7504)

5182. A Method for the Improvement of the Nutritional State of Totally Gastrectomized Animals.

Peter B. Samuels, M.D., Ward Phys.; Sepulveda, Calif. (7532)

5183. Gallbladder Function in Postoperative Patients.

Herbert D. Gullick, M.D., Asst. Ch. Surg. Serv.; Syracuse, N.Y. (7798)

5184. Study of Subtotal Gastrectomy for Peptic Ulcer.

Fennell P. Turner, M.D., Ch. Surg. Serv.; Francis A. Spellman, M.D., Ch. GI Sect.; Togus, Maine. (7859)

5185. Creatine Metabolism in Peptic Ulcer.

Fennell P. Turner, M.D., Ch. Surg. Serv.; Togus, Maine. (10535)

5186. Results of Radical Subtotal Gastrectomy for Duodenal Ulcer.

C. S. Hoar, Jr., M.D., Asst. Surg.; S. Hoye, M.D., Resident, Surg. Serv.; West Roxbury, Mass. (8180)

5187. A Study of the Use of Preoperative Antibiotics in Elective Gastric Surgery.

Charles M. Schroeder, M.D., Attend. Surg., VAC, Assoc. Clin. Prof. Surg., Marquette; William A. Bormes, M.D., Resident Surg., VAC; Wood, Wis. (9761)

5188. A Study of Tube Feeding With Special Reference to the Barron Food Pump.

Robert G. Brault, M.D., Resident Surg., VAC; Walton D. Thomas, Sc. M., M.D., Attend. Surg., VAC, Asst. Clin. Prof. Surg., Marquette; Wood, Wis. (9762)

10. Genitourinary Diseases

5189. Etiology of the Uremic Syndrome.

Henry K. Schoch, M.D., Ch. Med. Serv.; Ann Arbor, Mich. (2135)

5190. Evaluation of Johanson Procedure in Urethral Strictures.

Jack Lapides, M.D., Ch. Urol. Sec., VAH; Lee Stroia, M.D.; Instr. Surg., Univ. of Michigan; Ann Arbor, Mich. (2171)

5191. Determination of Reaction Rate With Use of Orisul (BA-17922).

Earl Haltiwanger, M.D., Ch. Urol.; Atlanta, Ga. (8880)

5192. Study To Determine the Effects of Hypothermia on Anuric Rats.

C. M. Rhode, M.D., Ch. Surg. Serv.; James L. Rogers, Med. Student, Research Lab. Tech.; Augusta, Ga. (9008)

5193. Mobilization of Renal Calculi by Metallic Mercury Induced Into the Renal Pelvis.

John L. Davis, M.D., Ch. Urol. Sec.; Bay Pines, Fla. (2462)

5194. Excretion of Calcium in the Dog as Studied by Stop Flow Analysis.

Robert H. Dudley, M.D., Dept. Med.; Robert E. Galloway, B.S., Biochem.; Joyce Watkins, B.S.; H. V. Murdaugh, Jr., M.D., Asst. Ch. Med. Serv.; Birmingham, Ala. (9703)

5195. Para-Aminohippurate K_e in Normals and Persons With Renal Disease.

Howard C. Elliott, Ph. D., Biochem., Dept., Med. Coll. of Alabama; Ray Ratliffe, Biochem. Dept., Med. Coll. of Alabama; H. V. Murdaugh, Jr., M.D., Asst. Ch. Med. Serv., VAH; Birmingham, Ala. (9704)

5196. Hippurate K_e in Patients with Renal Disease.

Howard C. Elliott, Ph. D., Biochem. Dept., Med. Coll. of Ala.; Hsien Wu., Biochem. Dept., Med. Coll. of Alabama; H. V. Murdaugh, Jr., M.D., Asst. Ch. Med. Serv., VAH; Birmingham, Ala. (9705)

5197. Uric Acid Excretion as Affected by Benzoate.

Howard C. Elliott, Ph. D., Dept. Biochem., Med. Coll. of Alabama; H. V. Murdaugh, Jr., M.D., Asst. Ch. Med. Serv., VAH; Birmingham, Ala. (9706)

5198. Studies of Hyaluronidase Production by the Kidney.

Robert E. Galloway, B.S., Biochem.; H. V. Murdaugh, Jr., M.D., Asst. Ch. Med. Serv.; Birmingham, Ala. (9707)

5199. Magnesium Excretion in Renal Disease.

H. V. Murdaugh, Jr., M.D., Asst. Ch. Med. Serv., VAH; R. R. Robinson, M.D., Ch. Med. Serv., USAFB, Lackland, Tex.; Birmingham Ala. (9708)

5200. Sodium Excretion by the Dog Kidney Studied by Stop Flow Analysis.

H. V. Murdaugh, Jr., M.D., Asst. Ch. Med. Serv.; Birmingham, Ala. (9709)

5201. Water Diuresis Stop Flow.

H. V. Murdaugh, Jr., M.D., Asst. Ch. Med. Serv.; Robert E. Galloway, B.S., Biochem.; Ellen H. Hayes, B.S., Biochem.; Birmingham, Ala. (9710)

5202. The Appearance of C^{14} Urea in Samples During Stop Flow Analysis.

H. V. Murdaugh, Jr., M.D., Asst. Ch. Med. Serv.; Birmingham, Ala. (9711)

5203. Red Blood Cell, Urea, and Hemoglobin Binding of Urea.

H. V. Murdaugh, Jr., M.D., Asst. Ch. Med. Serv., VAH; Birmingham, Ala.; Eleanor Doyle, VAH; Durham, N.C. (9712)

5204. Clinical Evaluation of Determination of Uropepsin as a Diagnostic Procedure.

W. Ray Vance, B.S., Biochem.; Birmingham, Ala. (9713)

5205. Hyponatremia, Hypervolemia Following Prostatectomy. A Case Report.

Joseph B. Dowd, M.D., Resident, Urol.; Richard Chute, M.D., Ch. Urol. Sect.; Boston, Mass. (2671)

5206. Retroperitoneal Lymph Node Dissection for Testicular Tumors.

Richard Chute, M.D., Ch. Urol. Sect.; Sanford Weinert, M.D., Resident, Urol.; Joseph B. Dowd, M.D., Resident, Urol.; Boston, Mass. (2672)

5207. Solitary Distant Metastases From Unsuspected Renal Carcinomas.

E. Ireland, M.D., Resident, Urol.; Richard Chute, M.D., Ch. Urol.; John D. Houghton, M.D., Ch. Path.; Boston, Mass. (2673)

5208. Resistance of Teflon to Encrustation in the Rat Bladder.

Sanford D. Weinert, M.D., Resident, Urol.; Richard Chute, M.D., Resident, Urol.; Boston, Mass. (10299)

5209. Evaluation of Renal Function in Patients Who Previously Had Orthostatic Proteinuria.

Dr. J. Wolf; Dr. A. Ancowitz; Dr. S. King; Bronx, N.Y. (4552)

5210. Sterilization of Cystoscopes Used in Genito-Urinary Tuberculosis.

Edith L. Duerr, Ph. D., Ch. Microbiol. Sec.; Herman Wechsler, M.D., Attend. Urol. Surg. Serv; Milton Goldman, Lab. Tech.; Bronx, N.Y. (10110)

5211. Use of Pyribenzamine in Doing IV Urograms.

Herman Wechsler, M.D., Attend. Urol. Surg. Serv.; L. L. Spivack, M.D., Ch. Urol. Sec., Surg. Serv.; Bronx, N.Y. (10111)

5212. Electron Microscopy—Studies on Nephrosis and Liver Diseases.

Thomas Morrione, M.D., Attend. VAH, Path., Long Island Coll. of Med.; Hyman M. Katz, M.D., Ch. Gen. Med. Sec., VAH; Edwin Newman, Med. Biol. Tech., Research Lab.; Brooklyn, N.Y. (10801)

5213. A Urological Survey of 1,000 Patients with Pulmonary Tuberculosis.

Conrad A. Kuehn, M.D., Urol., VAH, Butler, Pa.; William H. Gehron, Jr., M.D., Resident Urol., VAH; Pittsburgh 40, Pa.; Butler, Pa. (3041)

5214. Postural Proteimuria.

Louis P. Nangeroni, M.D., Staff Phys.; Arthur Nathan, M.D., Ch. TB Serv.; S. Edward King, M.D., Cons. Intern. Med.; Castle Point, N.Y. (8692)

5215. The Natural History of Renal Diseases. Observations on Pathology Correlated with the Clinical Course, Immunologic Data and Certain Other Measurements.

David P. Earle, M.D., Cons. VAH, Prof. Med. Northwestern Univ.; Robert B. Jennings, M.D., Attend. Path., VAH, Asst. Prof. Path., Northwestern Univ.; Charles L. Flanagan, M.D., Attend. Med., VAH, Assoc. Prof. Northwestern Univ.; David Hines, M.D., Med. Resident, VAH; Chicago (Res.), Ill. (3616)

5216. Prophylactic Vasectomy in Prostatic Surgery.

John B. Graham, M.D., Instr. Urol., Northwestern Univ.; George Bulkley, M.D., Attend. Urol., VAH, Asst. Prof. Urol., Northwestern Univ.; John Grayhack, M.D., Attend., Urol., VAH, Asst. Prof., Urol., Northwestern Univ.; Henry Drinker, Jr., M.D., Resident, Urol., VAH; Chicago (Res.), Ill. (3683)

5217. Investigation of the Treatment of Prostatic Carcinoma with Radioactive Isotopes.

John T. Grayhack, M.D., Attend., Urol., VAH, Asst. Prof. Urol., Northwestern Univ.; John A. D. Cooper, Ph. D., M.D., Ch. RI Serv., VAH; Chicago (Res.), Ill. (3802)

5218. Estimation of Renal Function Using Radioiodine-Labeled Diodrast.

John A. D. Cooper, Ph. D., M.D., Ch. RI Serv.; John T. Grayhack, M.D., Urol. Serv.; Chicago (Res.), Ill. (3809)

5219. The Role of Citric Acid Cycle in Renal Function.

Morris A. Lipton, Ph. D., M.D., Asst. Dir. Prof. Serv. for Research; Chicago (Res.), Ill. (3610)

5220. The Role of Organic Acids in the Renal Adjustment to Alkalosis.

Morris A. Lipton, Ph. D., M.D., Asst. Dir. Prof. Serv. for Research, Ch. Psychosomatic Sec.; Chicago (Res.), Ill. (3611)

5221. Study of the Effect of Hexadacadrol in Renal and Other Disorders.

W. James Kuhl, Jr., M.D., Ch. Metab. Sec.; David P. Earle, M.D., Cons. Med. VAH, Prof. Med., Northwestern Univ.; George H. West, M.D., Attend. Med. VAH, Fellow Med., Northwestern Univ.; Chicago (Res.), Ill. (9089)

5222. Clinical Features, Urinary Sediment and Histology at Kidney Needle Biopsy.

Nicholas Cotsonas, M.D., Attend. Phys. VAH, Assoc. Prof. Med., Univ. Ill. Coll. Med.; Bernard Chomet, M.D., Ch. Lab. Serv. VAH; William F. T. Kellow, M.D., Attend. Phys. VAH, Asst. Dean and Asst. Prof. Med., Univ. Ill. Coll. Med.; Hyman J. Zimmerman, M.D., Attend. Phys. VAH, Chm. and Prof., Dept. Med., Chicago Med. Sch.; Chicago (W.S.), Ill. (3725)

5223. Representative Nature of Specimen Obtained by Needle Biopsy of Kidney.

William F. T. Kellow, M.D., Attend. Phys. VAH, Asst. Dean and Asst. Prof. Med., Univ. of Illinois Coll. of Med.; Nicholas Cotsonas, M.D., Attend. Phys. VAH, Dir. OPD, Univ. of Illinois R & E Hosp.; Bernard Chomet, M.D., Ch. Lab. Serv., VAH; H. J. Zimmerman, M.D., Attend. Phys. VAH, Chm. Dept. Med., Chicago Med. Sch.; Chicago (W.S.), Ill. (3726)

5224. Intensive Group Living Treatment Program for Withdrawn Schizophrenic Patients.

Shirley K. Kittleson, Ph. D., Research Clin. Psychol.; Meyer Williams, Ph. D., Ch. Clin. Psychol. Sec.; Louis Halperin, M.D., Dir. Psych. and Neur. Serv.; Chicago (W.S.), Ill. (3777)

5225. Use of Renocidin for Dissolution of Urinary Tract Calculi.

George T. Mellinger, M.D., Ch. Urol. Serv.; William B. Rank, M.D., Resident, Urol. Serv.; Cincinnati, Ohio. (10396)

5226. Uretero-Ileo-Urethral Anastomosis: A Bladder Substitute.

George T. Mellinger, M.D., Ch. Urol. Serv.; Cincinnati, Ohio. (10402)

5227. Studies on the Physiology of Impotence.

George T. Mellinger, M.D., Ch. Urol. Serv.; Cincinnati, Ohio. (10403)

5228. Effect of Chemotherapy on Stone Formation in Paraplegics.

Herbert Sohn, M.D., Resident, Urol.; Roswell Lowry, M.D., Ch. PMR Sec., VAH; Lester Persky, M.D., Cons. VAH, Assoc. Prof., Urol., Western Reserve Univ.; Cleveland, Ohio. (10647)

5229. Transplantation of Ureters to Ileal Pouch.

Herbert Sohn, M.D., Resident, Urol. VAH; Lester Persky, M.D., Assoc. Prof., Urol., Western Reserve Univ., Cons. VAH; Cleveland, Ohio. (10648)

5230. Total Cystectomy With Construction of Rectal Bladder and Perineal Sigmoidostomy for Carcinoma.

Benjamin E. Schwarcz, M.D., Ch. Urol. Sec.; Coral Gables, Fla. (3209)

5231. Gastric Lavage in Acute Renal Failure.

R. P. Hays, M.D., Asst. Ch. Surg. Serv.; E. M. Wright, M.D., Staff, Surg. Serv.; Dallas, Tex. (3326)

5232. Foreign Body in the Bladder.

Frederick J. Grigsby, M.D., Resident Urol.; Edward F. Kelly, M.D., Ch. Urol. Sec.; Dayton, Ohio. (12043)

5233. One Year Study of the Treatment of Peyrenie's Disease With Hydrocortisone Injections.

Frederick J. Grigsby, M.D., Resident Urol.; Dayton, Ohio. (12044)

5234. Value of Prophylactic Vasoligation in the Treatment of Benign Prostatic Hypertrophy.

Robert K. Mookine, Jr., M.D., Resident Urol.; Dayton, Ohio. (12045)

5235. Nephro-Ureterectomy in an Unsuspected Hemophiliac.

Robert K. Mookine, Jr., M.D., Resident Urol.; Edward F. Kelly, M.D., Ch. Urol. Sec.; Dayton, Ohio. (12081)

5236. Studies of the Metabolic Basis of Renal Function: Glucose Metabolism in the Kidney.

W. P. McCann, M.D., Asst. Prof. Pharm., Univ. of Colo. Sch. of Med.; Om Datt Gulati, M.D., Fellow, U.S. Public Health Service; Carlton Dean, M.D., Surg. Resident, VAH; B. Eiseman, M.D., Ch. Surg. Serv., VAH; Denver, Colo. (9464)

5237. The Effect of Negative Pressure Breathing on the Renal Excretion of Electrolytes, Renal Blood Flow and Golmerular Infiltration.

J. R. Durrance, M.D., Ch. Chest Sec.; E. R. Huffman, M.D., Ch. Card.; Robert Bolasny, Cardiopulm. Func. Tech.; Denver, Colo. (9465)

5238. Renal Calculi in Chronic Ulcerative Disease of Ileum and Colon.

H. Elrick, M.D., Ch. RI Serv.; Denver, Colo. (9466)

5239. Treatment of Testicular Tumors (With Metastasis) With Nitrofurazone.

A. L. Daywitt, M.D., Ch. Radiol.; H. Elrick, M.D., Ch. Research Lab. and RI Serv.; Denver, Colo. (9467)

5240. Moving Picture Combined With Report on a New Method of Pyelography.

Maxwell Malament, M.D., Ch. Urol. Sec., Surg. Serv., East Orange, N.J. (9421)

5241. Post-Operative Bleeding Following Transurethral Resection of Prostate Using Hemocavit.

Maxwell Malament, M.D., Ch. Urol. Sec., Surg. Serv.; East Orange, N.J. (9422)

5242. Clinico-Pathologic Study of Carcinoma of the Bladder.

Herman J. Meisel, M.D., Ch. Urol. Serv.; Howard C. Kramer, M.D., Asst. Ch. Urol. Serv., VAH, Fort Howard, Md.; Fernando G. Bloedorn, M.D., Ch. Dept. Radiotherapy, University Hospital; Baltimore, Md. (4070)

5243. Studies on the Diodrast Renogram.

Stanley J. Haukeness, M.D., Ward Phys.; Grand Junction, Colo. (10146)

5244. Treatment of Uremia Due to Chronic Renal Disease.

Lionel M. Bernstein, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Hines, Ill. (4203)

5245. Genitourinary Blastomycosis: Case Report and Review of Literature.

Donald Rolnick, M.D., Resident, Surg. Serv.; George O. Baumrucker, M.D., Asst. Clin. Prof. Dept. Urol., Univ. of Illinois Col. of Med.; Hines, Ill. (4236)

5246. Development of Catheter for Collection of the Urine Separately From Each Kidney.

Lionel M. Bernstein, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Hines, Ill. (10372)

5247. Use of Iodine 131-Labeled Diodrast for Scanning of Dog Kidneys.

Mary C. Morgan, M.D., Ch. RI Serv.; Harry L. Barton, M.D., Ch. Radiol. Serv.; Ethel E. Erickson, M.D., Asst. Ch. Lab. Serv., VAH; Jack R. Risser, Ph. D., Prof. Phys., The Rice Inst.; Houston, Tex. (4463)

5248. A Study of Bladder Physiology During Voiding.

Russell Scott, Jr., M.D., Cons. VAH, Instr. Urol., Dept. Surg., Baylor; Joe McIlhaney, Med. Student, Baylor; Robert Stell, M.D., Resident Urol., VAH; Houston, Tex. (8798)

5249. An Evaluation of Ciba Product BA 17922.

Russell Scott, Jr., M.D., Urol.; Carter E. Carlton, M.D., Resident Urol.; Houston, Tex. (8954)

5250. Evaluation of the Acid Phosphatase as a Screening Test for Carcinoma of the Prostate.

Victor Saied, M.D., Resident Surg.; Carl H. Almond, M.D., Resident Urol.; Russell Scott, Jr., M.D., Ch. Urol. Sect.; Houston, Tex. (8955)

5251. Evaluation of the Rectal Pouch with Ureteral Rectal Anastomosis and Proximal Colostomy for Diversion of the Urinary Stream in Carcinoma of the Bladder Following Total Cystectomy.

Carl H. Almond, M.D., Resid. Urol.; Edward Nonweiler, M.D., Resid. Surg.; Russell Scott, Jr., M.D., Ch. Urol. Sect.; Houston, Tex. (8956)

5252. A Study of the Importance of Emotional Patterns in Young Patients with Myocardial Infarction.

Isham Kimbell, Jr., M.D., Ch. Closed Ward Sect.; W. Morse Hicks, Jr., M.D., Asst. Ch. Med. Serv.; Andrew S. Wachtel, M.D., Resident Psychiat.; Dale Johnson, Ph. D., Psychol.; Sidney E. Cleveland, Ph. D., Asst. Ch. Psychol. Serv.; Houston, Tex. (8966)

5253. The Prevention of Urinary Tract Infection from Retention Catheters.

Orville D. Johnson, Resident Med.; Hugh D. Bennett, Ch. Med. Serv.; Margaret Bourdon, R.N., Super. Central Serv.; Frances Whitcomb, M.S., Microbiol.; Houston, Tex. (8783)

5254. Determination of the Need for PSP Test Prior to Elective Urinary Tract Surgery.

Dr. W. J. Lage, Asst. Ch. Urol.; Dr. Russell Scott, Jr., Act. Ch. Urol.; Houston, Tex. (8786)

5255. A Study of the Diodrast I–131 Kidney Function Test.

Ward A. Laramore, M.D., Staff Phys.; James E. Durlacher, B.S., Asst. Ch. RI Serv.; Leo Oliner, M.D., Ch. RI Serv.; Indianapolis, Ind. (4802)

5256. Spontaneous Hemorrhagic Rupture of the Kidney Associated with Periarteritis Nodosa.

Isadore Mandelbaum, M.D., Resident Surg.; Leo R. Radigan, M.D., Ch. Surg. Serv.; Indianapolis, Ind. (10898)

5257. Presacral Air Insufflation.

Louis W. Gilbert, M.D., Urol. Serv.; Lincoln, Nebr. (6363)

5258. The Artificial Kidney: Its Use in Acute and Chronic Renal Failure.

Francis Neumayer, M.D., Surg. Serv.; Louis W. Gilbert, M.D., Urol. Serv.; Charles F. Gutch, M.D., Med. Serv.; Sue C. Stevens, Ph. D., Research Biochem.; Lincoln, Neb. (6364)

5259. The Determination of Serum Inorganic Sulfate as a Diagnostic Aid.

Sue C. Stevens, Ph. D., Research Biochem.; Francis Neumayer, M.D., Surg. Serv.; Charles F. Gutch, M.D., Med. Serv.; Lincoln, Neb. (6372)

5260. Changes of Serum Osmolality Compared to the Changes in the Dialyzing Bath Osmolality During Hemodialysis.

F. Neumayer, M.D., Surg. Serv.; S. C. Stevens, Ph. D. Research Biochem.; Lincoln, Neb. (11010)

5261. The Use of I–131 Labeled Human Serum Albumin To Study Albuminuria.

William H. Perkins, M.D., Ch. RI Serv.; Burch V. Raley, M.D., Ward Phys.; Little Rock, Ark. (5091)

5262. Studies on Renal Hypertrophy.

N. B. Kurnick, M.D., Ch. Hemat. Sect., VAH; Don S. Miyada, Ph. D., Research Biochem., Univ. of California at Los Angeles; Caroline Klund, Tech., Univ. of California at Los Angeles; Lillian Young, Tech., VAH; Long Beach, Calif. (5156)

5263. Electronmicrographic Studies of Nephrosis.

Carolyn Piel, M.D., Prof. Pediatrics, Stanford Med. Sch.; F. W. S. Modern, M.D., Ch. PMR Serv., VAH; J. R. Goodman, Ph. D., Biochem.; Long Beach, Calif. (5159)

5264. Uretero-Sigmoidostomy and Colostomy in Vesical Carcinoma.

Arthur J. Bischoff, M.D., Ch. Urol. Sect.; Long Beach, Calif. (5182)

5265. Relationship of Post-Prostatectomy Urinary Symptoms to Degree of Trabeculation.

Paul H. Westphal, M.D., Phys. Urol. Sect.; Arthur J. Bischoff, M.D., Ch. Urol. Sect.; A. Estin Comarr, M.D., Asst. Ch. Spinal Cord Injury Serv.; Ernest Bors, M.D., Ch. Spinal Cord Injury Serv.; Long Beach, Calif. (5190)

5266. Hemodialysis—Phase I.

Joe H. Leonard, M.D., Staff Phys. Paraplegia Serv.; Long Beach, Calif. (8418)

5267. Hemodialysis—Phase II.

Joe H. Leonard, M.D., Staff Phys. Paraplegia Serv.; Long Beach, Calif. (8419)

5268. The Stimulus to Renal Acid Secretion.

Daniel H. Simmons, M.D., Ph. D., Ch. Resp. Lab.; Los Angeles, Calif. (5626)

5269. The Relationship of Renal Function to a Possible Deficiency in Glycocyamine Production.

R. Goldman, M.D., Ch. Med. Serv., Asst. Dir. Prof. Serv. for Research, VAH, Sepulveda, Calif.; S. H. Bassett, M.D., Asst. Dir. Prof. Serv. for Research, VAC; Los Angeles, Calif. (5627)

5270. Tubular Functions of the Kidney in Chronic Renal Disease. The Mechanisms by which the Chronically Damaged Kidney Compensates for Alteration in Volume, Compositions, and Reactions of Body Fluids and the Effect of Diet on these Regulatory Mechanisms and Discrete Renal Functions.

C. R. Kleeman, M.D., Sect. Ch. Metab.; D. H. Simmons, M.D., Sect. Ch., VAC; M. H. Maxwell, M.D., Attend. Spec., VAC, Assoc. Clin. Prof. Med., Univ. of California at Los Angeles Med. Center; Los Angeles, Calif. (5677)

5271. Peritoneal Dialysis in Acute Renal Failure and Other Conditions.

Morton H. Maxwell, M.D., Attend. Med., VAC, Assoc. Clin. Prof. Med., Univ. of California Med. Center; Charles R. Kleeman, M.D., Ch. Metab. Sec., VAC; Robert E. Rockney, M.D., Clin. Instr. Med., Univ. of California at Los Angeles Med. Center; Los Angeles, Calif. (5681)

5272. Studies on Acute and Chronic Pyelonephritis.

Morton H. Maxwell, M.D., Attend. Med., VAC, Assoc. Clin. Prof. Med., Univ. of California at Los Angeles Med. Center; Charles R. Kleeman, M.D., Ch. Metab. Sec., VAC; Lucien B. Guze, M.D., Clin. Invest.; Los Angeles, Calif. (5682)

5273. Studies on Altered Renal Mechanisms in Uremia.

Ralph Goldman, M.D., Cons. Med., VAH, Sepulveda, Calif., Assoc. Prof. Med., Univ. of California at Los Angeles Med. Center; Samuel H. Bassett, M.D., Asst. Dir. Prof. Serv. for Research, VAC; Los Angeles, Calif. (5725)

5274. Studies in the Pathogenesis of Experimental Pyelonephritis.

Lucien B. Guze, M.D., Clin. Invest.; Los Angeles, Calif. (5839)

5275. Investigation of the Immunologic Response of Patients with Streptococcal Infection and Post-Streptococcal Diseases (Glomerulonephritis and Rheumatic Fever)

Lucien B. Guze, M.D., Clin. Invest.; Sydney M. Finegold, M.D., Ch. Chest and Infect. Dis.; Morton H. Maxwell, M.D., Attend. Sp. Med.; Charles R. Kleeman, M.D., Ch. Metabol. Sect.; Los Angeles, Calif. (5840)

5276. The Anemia of Chronic Renal Disease: Its Pathophysiology and Its Relationship to Cause and Type of Renal Dysfunction.

Irwin M. Weinstein, M.D., Ch. Hemat. Sect.; Charles R. Kleeman, M.D., Ch. Metab. Sect., VAC; E. Raymond Borun, M.D., Attend. VAC, Asst. Prof. Med., Univ. of California at Los Angeles Med. Center; Morton H. Maxwell, M.D., Attend. VAC, Assoc. Clin. Prof. Med., Univ. of California at Los Angeles Med. Center; Los Angeles, Calif. (5862)

5277. Observations of the Treatment of Chronic Pyelonephritis with Methionine and Mandelic Acid. A Pilot Study.

Lucien B. Guze, M.D., Clin. Invest.; Charles R. Kleeman, M.D., Ch. Metab. Sect., VAC; Charles Gelbach, M.D., Med. Student, Univ. of California at Los Angeles Med. Center; Los Angeles, Calif. (8442)

5278. Renal Clearance of Neomycin.

Lucien B. Guze, M.D., Clin. Invest.; Charles R. Kleeman, M.D., Ch. Metab. Sect.; J. M. Koplowitz, M.D., Resident Med., Donald Adams, M.D., Resident Med.; Donald Bernstein, M.D., Resident Med.; Los Angeles, Calif. (8443)

5279. Nephrotic Syndrome in Adults: Natural History and Results of Therapy.

Morton H. Maxwell, M.D., Attend. Med., VAC, Assoc. Clin. Prof. Med., Univ. of California at Los Angeles Med. Center; Charles R. Kleeman, M.D., Ch. Metab. Sect., VAC; Donald Adams, M.D., Resident Med.; Donald Bernstein, M.D., Resident Med.; Los Angeles, Calif. (8448)

5280. Radiologic and Cytologic Screening of a Population for Early Diagnosis of Lung Cancer.

D. B. MacCallum, Ph. D., M.D., Ch. Dom. Med. Serv.; Ben Fishkin, M.D., Act. Ch. Lab.; Paul Ortega, M.D., Path.; Sydney Finegold, M.D., Ch. Chest and Infect. Diseases; M. L. Johnston, M.D., Radiol.; Los Angeles, Calif. (8449)

5281. Experimental Pyelonephritis. Histochemical Studies of the Kidney During the Course of the Disease.

Lucien B. Guze, M.D., Clin. Invest.; Abraham M. Breslau, M.A., Hist.; Los Angeles, Calif. (9203)

5282. Idiopathic Retroperitoneal Fibrosis. A Case Report.

Bernard I. Popham, M.D., Asst. Ch. Med., VAH; Thomas D. Stevenson, M.D., Cons. Intern. Med., VAH, Asst. Prof. Med., Univ. of Louisville Med. Sch.; Louisville, Ky. (5474)

5283. Evaluation of Thixokon (Mallinckrodt Chemical Works) a New Medium for Use in Urethrography.

Henry I. Berman, M.D., Ch. Urol. Sec.; Louisville, Ky. (10726)

5284. Comparative Study of Kynex and Azo-Kynex for Genito-Urinary Infections.

Hans E. Berger, M.D., Phys. Intermed. Serv.; Eleanor B. Sisler, N.S., Biochem., Geriatrics Research Lab.; Thomas H. McGavack, M.D., Ch. Intermed. Serv.; Martinsburg, W. Va. (10824)

5285. Normal Values of Renal Function in Individuals With One Kidney.

Hans N. Naumann, M.D., Ch. Biochem. Sec. Lab. Serv.; Memphis, Tenn. (6016)

5286. Intermittent Peritoneal Lavage Following Recent Abdominal Surgery.

John J. McCaughan, Jr., M.D., Asst. Ch. Surg. Serv.; Memphis, Tenn. (6080)

5287. Investigation of the Effect of Various Chemicals on Blood Flow in the Mammalian Kidney.

Julian S. Ansell, M.D., Ch. Urol. Sec.; Warren J. Brooker, M.D., Resident, Surg. Serv.; Minneapolis, Minn. (6224)

5288. The Effect of Pooled Alpha-Globulin on Renal Homotransplant Survival.

Julian S. Ansell, M.D., Ch. Urol. Sec.; Horace H. Zinneman, M.D., Ch. Blood Transfusion Sec.; Paul Gonick, M.D., Resident, Urol. Sec.; Minneapolis, Minn. (8903)

5289. Radical Transvesicle Prostatectomy.

Julian S. Ansell, M.D., Ch. Urol. Sec.; Minneapolis, Minn. (9848)

5290. Follow-Up Studies in 200 Cases of Laennec's Cirrhosis.

W. G. Gobbel, Jr., M.D., Asst. Ch. Surg. Serv.; James B. Dalton, M.D., Surg. Serv.; W. L. Taylor, M.D., Surg. Serv.; R. I. Carlson, M.D., Ch. Surg. Serv.; Nashville, Tenn. (5371)

5291. Changes in Urinary and Plasma Osmolality Induced by Hypertonic NaCl Infusions.

Emanuel H. Bresler, M.D., Asst. Dir. Prof. Serv. for Research, Ch. RI Serv.; New Orleans, La. (6416)

5292. The Relationship between Osmolality of Plasma and Urine and Protein Electrophoretic Patterns of Plasma and Urine in Patients with Uremia and in Patients with Unexplained Hyperosmolality in Advanced Disease States.

J. James Smith, M.D., Ch. Med. Serv., VAH; Albert L. Rubin, M.D., Attend. Phys., VAH, Asst. Prof. Clin. Med., Cornell Univ. Med. Coll.; New York, N.Y. (6491)

5293. Preliminary Study of Plastic Prostheses for Surgically Removed Ureters in Dogs.

Aaron Hardy Ulm, M.D., Ch. Urol. Sect.; New York, N.Y. (6512)

5294. Endogenous Typhoid Hormone Turnover in Nephrosis.

Harold S. Ballard, M.D., Staff Phys. Med. Serv.; Marcus A. Rothschild, M.D., Ch. RI Serv.; Murray Oratz, Ph. D., Asst. Ch. RI Serv.; New York, N.Y. (8721)

5295. Renal Tubular Secretion of Magnesium [28].

Earl Ginn, M.D., Resident Phys.; William O. Smith, M.D., Asst. Ch. RI Serv.; David D. Snyder, M.D., Resident Phys.; James F. Hammarsten, M.D., Ch. Med. Serv.; Oklahoma City, Okla. (10060)

5296. Magnesium and Renal Disease.

William O. Smith, M.D., Asst. Ch. RI Serv.; Earl Ginn, M.D., Resident Phys., VAH; Leonard P. Eliel, M.D., Dir. Oklahoma Med. Research Foundation; James F. Hammarsten, M.D., Ch. Med. Serv., VAH; Oklahoma City, Okla. (10061)

5297. The Urinary Chemistry Involved in Renal Calculus Formation.

James S. Elliot, M.D., Ch. Urol. Sect. Surg. Serv.; Oakland, Calif. (9220)

5298. Comparison Evaluation of Renal Function Tests Using Radioactive Iodine Tagged Renografin and Diodrast.

Richard E. Ogborn, M.D., Ch. RI Serv.; John D. Egan, M.D., Asst. Ch. Med. Serv.; Alan J. Blotcky, B.S., Asst. Ch. RI Serv.; Omaha, Nebr. (6773)

5299. Production of Antibody in Patients with Uremia.

Irwin L. Stoloff, M.D., Research Fellow Med., Jefferson Med. Coll.; Robert Stout, M.D., Resident, Med. Serv., VAH; Ralph M. Myerson, M.D., Asst. Ch. Med. Serv., VAH; W. Paul Havens, M.D., Cons. Med., VAH, and Prof. Clin. Microbiol., Jefferson Med. Coll.; Philadelphia, Pa. (7112)

5300. Effect of Vasopressin on Creatine Excretion in the Rat.

Clyde M. Williams, M.D., Biochem., RI Serv.; Suzanne Maury, Biochem., RI Serv.; Pittsburgh (Univ. Dr.), Pa. (11078)

5301. Effect of Steroids on Aminonucleoside Nephrosis.

Edwin R. Fisher, M.D., Act. Ch. Clin Lab., VAH; John G. Gruhn, M.D., Clin Asst. Cons., VAH, Prof. of Path., Univ. of Pitt.; Pittsburgh (Univ. Dr.), Pa. (11098)

5302. Effect of a Group of Antibiotics and Anti-metabolites on the Growth of Pleuro-pneumonia-like Organisms (PPLO).

Bernard J. Mulligan, Bacteriol.; Providence, R.I. (7165)

5303. Differential Renal Function in Paraplegic Patients With Unilateral Reflux.

Harry S. Rowland, M.D., Resident, Urol. Sec.; Joseph H. Magee, M.D., Act. Asst. Ch. Cord Injury Serv.; R. Carl Bunts, M.D., Ch. Urol. Serv.; Lewis W. Holladay, M.D., Ch. Spinal Cord Injury Serv.; Richmond, Va. (7231)

5304. Fluid Absorption and Hyponatremia During Transurethral Prostatic Resection.

Salvatore A. Pennisi, M.D., Senior Resident, Urol. Serv.; R. Carl Bunts, M.D., Ch. Urol. Serv.; Clifford E. Vinson, M.D., Resident Neur.; Richmond, Va. (7232)

5305. Operative Correction of Retrocaval Ureter: A Report of Three Cases and Review of the Literature.

Harry S. Rowland, M.D., Resident, Urol. Sec.; R. Carl Bunts, M.D., Ch. Urol. Serv.; Joseph H. Iwano, M.D., Resident, Urol. Sec.; Richmond, Va. (9925)

5306. Anemia of Renal Disease.

Robert D. Lange, M.D., Phys.; Neil I. Gallagher, M.D., Career Invest.; John M. McCarthy, M.D., Phys.; Kathleen T. Hart, Ph. D., Biochem., RI Serv.; St. Louis, Mo. (7714)

5307. The Determination of Renal Function With Radioactive Diodrast.

Robert E. Mack, M.D., Ch. Med. Serv.; St. Louis, Mo. (7724)

5308. Clinical Evaluation of a New Diuretic Agent, Diuril (Chlorothiazide).

Dr. Eli A. Ramirez, Ch. Med. Serv.; Dr. Abel F. De Juan, Resident, Med. Serv.; San Juan, P.R. (7497)

5309. Clinical and Bacteriological Response to Kynex (New Antibacterial Sulfonamide, 3-Sulfonilamido-6-Methoxypyridazine, Lederle).

Néstor H. Méndez, M.D., Exam. Phys. Urol.; Luis A. Passalacqua, M.D., Ch. Surg. Serv.; San Juan, P.R. (7507)

5310. Analysis of Urolithiasis in Puerto Rico.

Luis M. Isales, M.D., Act. Ch. Urol. Sect.; Marta Cancio, Ph. D., Super. Biochem.; José M. León, B.A., M.T., Chem.; San Juan, P.R. (7508)

5311. A Study of Bacterial Flora in Urine Specimens.

Luis M. Isales, M.D., Act. Ch. Urol. Sect.; Josefina Baralt-Pérez, M.S., Bact.; San Juan, P.R. (11042)

5312. Chemoinhibition of Prostatic Neoplasms.

Donald F. McDonald, M.D., Attend. VAH, Assoc. Prof. Surg., Univ. of Washington; John M. Kennelly, Jr., M.D., Attend. VAH, Instr. Urol. Div., Univ. of Washington; Kenneth P. Knudtson, M.D., Asst. Ch. Lab. Serv., VAH; Seattle, Wash. (7593)

5313. Evaluation of Hexadecadrol in the Treatment of the Nephrotic Syndrome.

Robert S. Evans, M.D., Ch. Med. Serv., VAH; Thomas Marr, M.D., Asst. Med., Univ. of Washington; John H. Lindberg, M.D., Clin. Instr. Med., Univ. of Washington; James M. Burnell, M.D., Attend. VAH, Clin. Asst. Prof. Med., Univ. of Washington; Seattle, Wash. (8814)

5314. Study of Non-Pigmented Serratia in Urinary Tract Infections.

Frances Condie, Bact.; Seattle, Wash. (9254)

5315. Cinefluorographic Study of the Dynamics of the Urinary Tract.

William L. Parry, M.D., Ch. Urol. Sect.; Joseph F. Finelli, M.D., Attend. VAH, Clin. Instr. Surg., State Univ. of New York Coll. of Med. in Syracuse; Syracuse, N.Y. (8724)

5316. Studies on the Renal Concentrating Mechanism. IV. Effect of Adrenal Steroids.

Lawrence G. Raisz, M.D., Clin. Invest., VAH; William Y. W. Au, M.D., Resident Med., VAH; Robert L. Scheer, M.D., Attend. Med., VAH, Clin. Instr. Med., State Univ. New York Coll. Med.; Syracuse, N.Y. (7780)

5317. Studies on the Renal Concentrating Mechanism. II. Effect of Variations in Solute Excretion.

Lawrence G. Raisz, M.D., Clin. Invest.; Robert L. Scheer, M.D., Attend. Med.; William Y. W. Au, M.D., Resident Med.; Syracuse, N.Y. (7781)

5318. Studies on the Renal Concentrating Mechanism. III. Renal Disease.

Lawrence G. Raisz, M.D., Clin. Invest., VAH; Robert L. Scheer, M.D., Attend. Med., VAH, Clin. Instr. Med., State Univ. New York Coll. Med.; William Y. W. Au, M.D., Resident Med., VAH; Syracuse, N.Y. (7782)

5319. Effects of Protein Anabolic Agents in Renal Disease.

Lawrence G. Raisz, M.D., Clin. Invest.; William Y. W. Au, M.D., Resident Med.; Robert L. Scheer, M.D., Attend. Med., VAH, Clin. Instr. Med., State Univ. New York Coll. Med.; Syracuse, N.Y. (7789)

5320. A Study of the Effects of Fat Emboli on Renal Function and Histology in the Rabbit.

Herbert D. Gullick, M.D., Asst. Ch. Surg. Serv.; Syracuse, N.Y. (7797)

5321. Numerical Estimate of Bacteria in Urinary Tract Infections and Relation of Urine pH to Therapeutic Response.

Thomas W. Mou, M.D., Attend. VAH, Asst. Prof. Prevent. Med., State Univ. New York Coll. Med.; William L. Perry, M.D., Ch. Urol. Sect.; Harry A. Feldman, M.D., Cons. VAH, Prof. Ch. Prevent. Med., State Univ. New York Coll. Med.; Syracuse, N.Y. (7803)

5322. Experimental Production of Acute Renal Failure in the Rat.

William L. Parry, M.D., Ch. Urol. Sect.; C. Barber Mueller, M.D., Cons. VAH, Prof. and Chm., Surg., State Univ. New York Coll. Med.; J. Albert Schaefer, M.D., Ch. Lab. Serv.; Syracuse, N.Y. (7805)

5323. Studies on the Renal Concentrating Mechanism. V. Effect of Diuretics.

Lawrence G. Raisz, M.D., Clin. Invest.; William Y. W. Au, M.D., Resident-Phys., VAH; Robert D. Lindeman, M.D., Resident Med., State Univ. New York; Syracuse, N.Y. (8931)

5324. Studies on the Renal Concentrating Mechanism. VI. Non-renal Disease.

Lawrence G. Raisz, M.D., Clin. Invest.; Herbert D. Gullick, M.D., Asst. Ch. Surg. Serv.; William Y. W. Au, M.D., Resident-Phys., VAH; Robert D. Lindeman, M.D., Resident Med., State Univ. New York; Syracuse, N.Y. (8932)

5325. Clinical Studies of Extracorporeal Dialysis and Ultrafiltration.

Lawrence G. Raisz, M.D., Clin. Invest.; Robert Meyer, M.D., Attend. Urol.; William L. Parry, M.D., Ch. Urol. Serv.; Robert B. Chodos, M.D., Ch. RI Serv.; Syracuse, N.Y. (8935)

5326. Subtotal Cystectomy.

Roger C. Baker, M.D., Surg. Cons.; Timothy L. Kelly, Jr., M.D., Surg. Attend.; Edouard P. Beaugard, M.D., Resident Urol.; Daniel L. Hayes, M.D., Resident Surg.; Timothy J. Tehan, M.D., Resident Urol.; Washington, D.C. (7981)

5327. Bilateral and Recurrent Renal Calculi.

Roger C. Baker, M.D., Surg. Cons.; Timothy L. Kelly, Jr., M.D., Surg. Attend.; Timothy J. Tehan, M.D., Resident Urol.; Washington, D.C. (7982)

5328. Studies of the Stress Mechanism in Patients with Spinal Cord Injury.

E. K. F. Ronka, M.D., Ward Phys., Urol.; Herbert S. Talbot, M.D., Ch. Paraplegia and Urol.; West Roxbury, Mass. (8184)

5329. A Study of the Electrical Action Potentials in the Urinary Bladder.

Herbert S. Talbot, M.D., Ch. Paraplegia and Urol.; West Roxbury, Mass. (8194)

5330. Reconstruction of the Urinary Bladder by Reversed Seromuscular Ileal Segments.

H. S. Talbot, M.D., Ch. Paraplegia and Urol.; W. C. Shoemaker, M.D., Cons. Research Lab.; West Roxbury, Mass. (8196)

5331. Experimental Urinary Diversion.

Edward A. Mahoney, M.D., Cons.; John H. Small, M.D., Resident, Urol.; West Roxbury, Mass. (11064)

5332. Renal Function in Patients on Prolonged Catheter Drainage.

Herbert S. Talbot, M.D., Ch. Urol.; Edward M. Mahoney, M.D., Cons., VAH; H. Robert Wise, M.D., Resident, Urol.; Stuart R. Jaffee, M.D., Resident, Urol.; West Roxbury, Mass. (11062)

5333. Renal Function Determinations in Patients with Pyelonephritis.

Lowrey Davenport, M.D., Ward Phys. Spinal Cord Injury Serv.; West Roxbury, Mass. (11065)

5334. Factors Influencing the Development and Healing of Pressure Ulcers.

Lowrey Davenport, M.D., Ward Phys. Spinal Cord Injury Serv.; West Roxbury, Mass. (11066)

5335. Studies of the Physiology of Micturition: The Dynamics of Uretero-Vesical Function.

Herbert S. Talbot, M.D., Ch. Urol.; Robert Peterson, M.D., Resident, Urol.; West Roxbury, Mass. (11068)

11. Skin and Cellular Tissue Disorders

5336. Experimental Study on Exchange Homograft in a Series of Burnt Animals. A Study of the Role of Burns in the Enhancement Phenomenon in Burns Treated With Homografts.

W. Brandon Macomber, M.D., Head Plastic Surg. Dept., Albany Med. Coll., Cons. VAH; M. K. Wang, M.D., Asst. Clin. Prof. Plastic Surg., Albany Med. Coll., Attend. VAH; R. A. Elliott, Jr., M.D., Senior Resident, Plastic Surg., VAH; R. N. Chase, M.D., Fellow Plastic Surg., Albany Med. Coll.; R. M. Rajpal, M.D., Resident Plastic Surg., Albany Hosp.; Albany, N.Y. (2022)

5337. A Study of the Incidence of Wound Dehiscence Among Sundry Abdominal Incisions.

John Heizer, M.D., Resident Surg.; Henry H. Faxon, M.D., Ch. Surg. Serv.; Wilbur Lyon, M.D., Resident Surg.; Boston, Mass. (2706)

5338. Evaluation of Triacetin as a Fungicide.

Oliver J. Harris, M.D., Asst. Dir. Clinic Prof. Serv., VAOC; Boston, Mass. (8575)

5339. Penetration of Aluminum Powder into Tissues.

Amour F. Liber, M.D., Asst. Ch. Path. Serv.; Bronx, N.Y. (4601)

5340. Hypogammaglobulinemia Associated with Sprue and Megaloblastic Marrow.

John G. Swadey, M.D., Sec. Ch. Med. Serv.; Ira Green, M.D., Research Assoc.; Robert Sperber, M.D., Resident Med. Serv.; Bronx, N.Y. (9052)

5341. Antimalarial Preparations in the Treatment of Cutaneous Disorders.

Harry Shatin, M.D., Ch. Derm.; Franklin S. Glickman, M.D., Resident Derm., VAH; Orlando Canizares, M.D., Sr. Cons., Derm., VAH, Clin. Prof. Derm. at NYU-Bellevue, Post-Grad. Med. Sch.; Bronx, N.Y. (9069)

5342. Reiter's Syndrome and Keratosis Blennorrhagica.

Harry Shatin, M.D., Ch. Derm,. VAH; Orlando Canizares, M.D., Sr. Cons., Derm., VAH, Clin. Prof. Derm. NYU-Bellevue Med. Sch.; Emory Ladany, Attend. Phys. Derm., VAH, Assoc. Prof. Clin. Derm., NYU-Bellevue Med. Center; Bronx, N.Y. (9070)

5343. Effects of Ionizing Radiation on Connective Tissue.

Amour F. Liber, M.D., Asst. Ch. Lab. Serv.; Bronx, N.Y. (10112)

5344. Perifolliculitis Copitis Abscedens et Suffodiens.

Orlando Canizares, M.D., Cons., Derm., VAH, Assoc. Prof. Clin. Derm. and Syphillis, NYU-Bellevue; Harry Shatin, M.D., Ch. Derm. Sec., VAH; Bronx, N.Y. (10113)

5345. Ammonia Levels in Blood and Cerebral Spinal Fluid in Liver Disease; Correlation with Histopathology of Liver Disease and Neurological Findings.

A. Wolf, M.D., Cons. Neuropath.; Theodore Ehrenreich, M.D., Asst. Ch., Path.; Carl B. Booth, M.D., Ch. Neur. Serv.; Bernard Klein, Ph. D., Ch. Chem. Sec., Lab. Serv.; John Swadey, M.D., Sec. Ch. Med. Sec. "B,"; Bronx, N.Y. (10126)

5346. Histochemistry of Skin Diseases.

Karl Steiner, M.D., Ch. Derm. Sec.; Ethel Suben, B.A., Histopath. Tech. Research Lab.; Brooklyn, N.Y. (2845)

5347. Glucosamine Tolerance Test.

Frank R. Schmid, M.D., Attend. Med., VAH, Assoc. Med., Northwestern Univ.; Junji Hasegawa, M.D., Resident Med.; Frank Dunlap, M.D., Resident Med.; Chicago, (Res.) Ill. (3648)

5348. Treatment of a Case of Scleroderma With a Chelating Agent (Endrate Sodium).

Ronald F. Coburn, M.D., Resident, Med.; Craig W. Borden, M.D., Ch. Med. Serv.; Frank R. Schmid, M.D., Attend. Med.; Chicago (Res.), Ill. (9095)

5349. Evaluation of Grisiofulvin in the Treatment of Superficial Fungus Infections.

Frank E. Dunlap, M.D., Resident, Derm.; Raymond Lewis, M.D., Resident, Derm., VAH; Morton P. Lazar, Attend. Derm., VAH, Assoc. Derm., Northwestern; Chicago (Res.), Ill. (9096)

5350. The Comparative Effects of Triamcinalone and Dexamethasone on Psoriasis and Psoriatic Arthritis.

Frank E. Dunlap, M.D., Resident, Derm.; Raymond Lewis, M.D., Resident, Derm., VAH; Frank Schmid, M.D., Attend., VAH, Assoc. Med., Northwestern; Chicago (Res.), Ill. (9097)

5351. Studies on Transplanted and Irradiated Skin in Rats.

Alfred M. Keirle, M.D., Ch. Surg. Serv.; Cincinnati, Ohio. (10938)

5352. Trimeprazine (Temaril) in Pruritus.

Bettie W. Hiles, M.D., Ch. Med. Serv.; Coatesville, Pa. (3160)

5353. The Effects of Large Intramuscular Doses of Riboflavin in Seborrheic Dermatitis.

O. E. Heim, M.D., Ward Phys., Med Serv.; Coatesville, Pa. (3161)

5354. A Method of Denture Construction for Markedly Resorbed Mandibular Alveolar Ridges.

Herbert Z. Kleinman, D.M.D., Ch. Dent. Serv.; Danville, Ill. (9360)

5355. Ischial Decubiti in Paraplegics.

F. Dougleas Travis, M.D., Resident Surg.; Dayton, Ohio. (3399)

5356. Wound Dehiscence.

George Rawls, M.D., Resident Surg.; Dayton, Ohio. (12080)

5357. The Role of Vitamin C in Wound Healing.

R. W. Postlethwait, M.D., Ch. Surg. Serv.; Marcus L. Dillon, M.D., Asst. Ch. Surg. Serv.; Ronald W. Chen, Ph. D., Biochem.; Durham, N.C. (3907)

5358. A Comparison of Methods of Obtaining Wound Tissue.

R. W. Postlethwait, M.D., Ch. Surg. Serv.; Ronald W. Chen, Ph. D., Biochem; Durham, N.C. (3908)

5359. Wound Healing: A Study of New Suture Material.

R. W. Postlethwait, M.D., Ch. Surg. Serv., VAH; James F. Schauble, M.D., Asst. Resident, Instr. Surg., Duke Med. Center; Marcus L. Dillon, M.D., Asst. Ch. Surg. Serv., VAH; Durham, N.C. (3915)

5360. Serum Electrophoresis in Psoriasis.

T. L. Fleisher, M.D., Ward Phys.; Stanley Yaffe, M.D., Cons. VAH, Instr. Derm., Johns Hopkins Univ., Baltimore, Md.; Fort Howard, Md. (9483)

5361. The Use of Lipase in the Treatment of Inflammation and Edema.

Joseph M. Miller, M.D., Ch. Surg. Serv.; Milton Ginsberg, M.D., Asst. Ch. Surg. Serv.; George C. McElfatrick, M.D., Ward Surg.; Fort Howard, Md. (9484)

5362. The Use of Contergon-268 in the Treatment of Inflammation and Edema.

Joseph M. Miller, M.D., Ch. Surg. Serv.; Milton Ginsberg, M.D., Asst. Ch. Surg. Serv.; George C. McElfatrick, M.D., Ward Surg.; Fort Howard, Md. (9485)

5363. The Use of Amylase Buccally in the Treatment of Inflammation and Edema.

Joseph M. Miller, M.D., Ch. Surg. Serv.; Milton Ginsberg, M.D., Asst. Ch. Surg. Serv.; George C. McElfatrick, M.D., Ward Surg.; Fort Howard, Md. (9486)

5364. Research and Clinical Study with Freeze Dry Skin and Emulsified Skin.

Louis J. Cenni, M.D., Act. Ch. Surg. Serv.; Grand Junction, Colo. (4119)

5365. To Demonstrate the Mechanism of Homograft Skin Graft Rejection and If Possible To Block or Inhibit It.

Paul Greeley, M.D., Cons. Ch. Plastic Surg. Sect.; Matthew Gleason, M.D., Resident, Surg. Serv.; Hines, Ill. (4255)

5366. To Test the Specificity of the Lupus Erythematosus Precipitation Test (LEPT), and Its Applicability as a Screening Procedure for Disseminated Lupus Erythematosus.

Robert L. Sylvester, B.S., Hemat.; George J. Sluka, Med. Tech.; Eugene L. Kanabrocki, B.S., Biochem.; Myron E. Bubnitz, M.D., Ch. Lab. Serv.; Hines, Ill. (10373)

5367. Study of Topical Absorption of 9-alpha-fluorohydrocortisone.

John M. Knox, M.D., Cons. VAH, Asst. Prof. Derm. and Path., Baylor Univ.; Gordon Lillie, M.D., Resident, VAH; Houston, Tex. (4379)

5368. Local Pathology of Burns.

Raymond O. Brauer, M.D., Attend. VAH, Asst. Prof. Plastic Surg., Baylor Univ.; Charles Bovard, M.D., Resident, VAH; Houston, Tex. (4416)

5369. Lung Structure in Three Dimensions After Inflation and Fume Fixation.

Bernard J. Blumenthal, M.D., Resident Med.; Hollis G. Boren, M.D., Staff Phys. Med.; Houston, Tex. (8963)

5370. Case Report of a Lipo-Hemangioma of the Shoulder.

Michael M. Klein, M.D., Ch. Radiol. Serv.; Huntington, W. Va. (10882)

5371. Tissue Analysis.

George A. Higgins, M.D., Ch. Surg. Serv., VAH; Paul R. Schloerb, M.D., Cons. Surg., VAH, Asst. Prof. Surg., Univ. of Kansas Med. Center, Kansas City, Kans.; Marie H. Carr, M.A., Biochem., VAH; Kansas City, Mo. (9617)

5372. Improvement of Method for the Determination of Magnesium.

Marie H. Carr, M.A., Biochem.; George A. Higgins, M.D., Ch. Surg. Serv., VAH; Paul R. Schloerb, M.D., Asst. Prof. Surg., Univ. of Kansas Med. Center, Cons. Surg., VAH; Kansas City, Mo. (9618)

5373. Experimental Studies With Aristocort Ointment.

Philip F. Murray, M.D., Dom. Med. Serv.; Harry Pariser, M.D., Cons. Derm.; Kecoughtan, Va. (10973)

5374. Effect of Antibiotics on Healing of Non-Tuberculous Ulcers.

Juan A. Arcellana, M.D., Ch. Lab. Serv. and Clin. Path.; Jack L. Wallace, Bact., Clin. Lab.; Livermore, Calif. (5110)

5375. Surgical Rehabilitation for Rheumatoid Arthritis.

Richard H. Hall, M.D., Cons.; S. S. Mathews, M.D., Cons.; R. H. Hutchinson, M.D., Ch. Orth. Sec.; Long Beach, Calif. (5189)

5376. Cutaneous Studies on Patients With Spinal Cord Injuries.

William B. Reed, M.D., Prof. Derm., Univ. of Southern California Med. Sch.; Joseph Pidgeon, M.D., Resident, Phys. Derm. Sec., VAH; S. William Becker, M.D., Ch. Derm. Sec.; Long Beach, Calif. (8416)

5377. The Effect of Antireticular Cytotoxic Serum on Healing of Decubitus Ulcers.

Ernest Bors, M.D., Ch. Spinal Cord Injury Serv., VAH; M. Runjavac, A.B., Delta Lab.; Long Beach, Calif. (10785)

5378. Properdin Studies in Relationship to Fungi.

Thomas H. Sternberg, M.D., Cons. Derm., VAC, Prof. Derm., Univ. of California at Los Angeles Med. Center; Earl G. McNall, Ph. D., Asst. Research Biochem., Univ. of California at Los Angeles Med. Center; Victor D. Newcomer, M.D., Attend. Derm., VAC, Assoc. Prof. Med., Univ. of California at Los Angeles Med. Center; Lloyd Sorenson, M.D., Asst. Research Biochem., Univ. of California at Los Angeles Med. Center; Edwin T. Wright, M.D., Ch. Derm. Sec., VAC; Los Angeles, Calif. (5687)

5379. Clinical Investigation of Pimaricine in Fungus Infections.

Edwin T. Wright, M.D., Sec. Ch. Derm.; Victor D. Newcomer, M.D., Attend. VAC, Assoc. Prof. Med., Univ. of California at Los Angeles Med. Center; Los Angeles, Calif. (8454)

5380. A Study of the Hexosamine-Collagen Ratio in Skin of Patients.

Harry Sobel, Ph. D., Invest., Howard Hughes Found., Visit. Assoc. Prof. Biochem. Nutrition, USC, Los Angeles; Edwin T. Wright, M.D., Ch. Derm. Sec., VAC; Norman H. Nelson, M.D., Sr. Resident Derm., VAC; Los Angeles, Calif. (9891)

5381. A New Method for the Repair of a Lateral Femoral Hernia.

John J. McCaughan, Jr., M.D., Asst. Ch. Surg. Serv.; Memphis, Tenn. (6082)

5382. Pathology of Sacral Decubitus Ulcers.

Samuel M. Reichel, M.D., Asst. Ch. PMR Serv.; Minneapolis, Minn. (6204)

5383. Tissue Reaction to Glass.

Fayette M. McElhannon, M.D., Surg. Resident; Raymond O. Christensen, M.D., Asst. Ch. Lab. Serv.; Nashville, Tenn. (9979)

5384. Mast Cell Studies of the Human Spleen.

Norman Ende, M.D., Ch. Clin. Lab.; Nashville, Tenn. (9980)

5385. Spectrophotometry in the Diagnosis of Various Skin Conditions.

Paraskevas Michaelides, M.D., Ch. Derm. Sec.; Marvin Ackerman, M.D., Resident Derm.; New York, N.Y. (6497)

5386. Histologic Study of Changes in Sebaceous Gland in Cholesterol-Fed Rabbits.

Sigmund L. Wilens, M.D., Ch. Lab. Serv.; New York, N.Y. (6500)

5387. The Use of Foam Rubber Shoes in the Treatment of Chronic Ulcers of Feet and Foam Rubber to Relieve Pressure over Decubitus Ulcers.

Gustave Steinberg, M.D., Phys. Med. Serv.; New York, N.Y. (8720)

5388. Skin Therapy With Tri-Iodothyronine Ointment.

Damien Maccarron, M.D., Ward Phys., Med. Serv.; Herman Glassman, M.D., Ward Phys., Acute Intensive Treatment Serv.; Northport, N.Y. (9033)

5389. Investigation of Protein, Glycoprotein and Polysaccharides of Experimental Connective Tissue and Wound Fluid.

Marvin R. Shetlar, Ph. D., Assoc. Prof. Biochem., Oklahoma Univ. Med. Sch.; John A. Schilling, M.D., Cons. Phy., VAH; Charles Cahill, Tech.; George H. Stidworthy, Ch. Biochem.; Clara L. Shetlor, Tech.; Oklahoma City, Okla. (6912)

5390. Fractionation of the Urinary Indole Derivatives With Particular Reference to the Excretion of Indole-Alkylamines.

Fred L. Humoller, Ph. D., Prin. Scien., VAH; John R. Walsh, M.D., Dir., Dept. Med., Creighton Univ., Cons. VAH; John D. Stevens, M.D., Psychiat., VAH; Omaha, Neb. (6757)

5391. The Nature of Cutaneous Drug Reactions.

Robert P. Arthur, M.D., Clin. Invest., VAH; Walter B. Shelley, M.D., Area Cons. Derm., VAH; Prof. Derm., Univ. of Pennsylvania Med. Sch.; Philadelphia, Pa. (7113)

5392. The Technique of Staining the Nerves in the Human Skin *In Vitro* With Thiazin Dyes.

Robert P. Arthur, M.D., Clin. Invest., VAH; Walter B. Shelley, M.D., Prof. Derm., Univ. of Pennsylvania Med. Sch.; Philadelphia, Pa. (7114)

5393. Study of the Pathogenesis of Psoriasis.

Robert P. Arthur, M.D., Clin. Invest., VAH; Walter B. Shelley, M.D., Prof. Derm., Univ. Pa. Med. Sch.; Philadelphia, Pa. (7115)

5394. A Study of Seborrheic Keratosis.

Robert P. Arthur, M.D., Clin. Invest.; Philadelphia, Pa. (9927)

5395. Tissue Culture Studies.

Robert P. Arthur, M.D., Clin. Invest.; Walter B. Shelley, M.D., Prof. Derm., Univ. Pennsylvania Med. Sch.; Philadelphia, Pa. (8756)

5396. Use of Chymar Aqueous and Chymar Ointment in the Treatment of Chronic Ulcers.

Oscar Serlin, M.D., Ch. Surg. Serv.; Alma D. Morani, M.D., Cons. Plastic Surg.; Philadelphia, Pa. (8944)

5397. Cutaneous Nerves in Diseased Skin

Robert P. Arthur, M.D., Clin. Invest.; Philadelphia, Pa. (9928)

5398. Untitled Pilot Studies Combining Neurohistology and Sensory Neurophysiology in Human Skin.

Robert P. Arthur, M.D., Clin. Invest., VAH; Walter B. Shelley, M.D., Prof. Derm., Univ. of Pa. Med. Sch.; Philadelphia, Pa. (9929)

5399. Newer Histologic Stain Techniques in Human Skin.

Robert P. Arthur, M.D., Clin. Invest.; Philadelphia, Pa. (9930)

5400. Study of Wound Healing by Sampling Tissue Contents from Implanted Hollow Glass Tubes.

William L. White, M.D., Cons., VAH, Asst. Prof. Plastic Surg., Univ. Pittsburgh; Linn H. Forster, M.D., Resident, Hand Surg.; Pittsburgh (Univ. Dr.), Pa. (11090)

5401. Histochemical Study of Carrageenin Granuloma.

Edwin R. Fisher, M.D., Act. Ch. Clin. Lab.; John Paar, Med. Student, Univ. Pittsburgh; Pittsburgh (Univ. Dr.), Pa. (11099)

5402. Clinico-Epidemiologic Studies of Rheumatoid Arthritis.

Forrest M. Willett, M.D., Ch. Med. Serv., VAH; E. P. Engleman, M.D., Attend. VAH, Assoc. Clin. Prof. Med., Univ. of California Sch. of Med.; G. W. Beebe, Ph. D., Div. Med. Sciences, Univ. of California; San Francisco, Calif. (7441)

5403. Rheumatoid Arthritis in Veterans of World War II.

Ephraim P. Engleman, M.D., Assoc. Clin. Prof. Med., Univ. of California Sch. Med.; Forrest M. Willett, M.D., Ch. Med. Serv., VAH; Robert J. Keehn, B.S., M.W., Hyg. Follow-Up Agency, National Research Council, Washington, D.C.; San Francisco, Calif. (9781)

5404. Behavior of Mucosal Autografts in Ectopic Sites.

John W. Bell, M.D., Ch. Surg. Serv.; Grandon E. Tolstedt, M.D., Resident Surg.; Seattle, Wash. (9241)

5405. Cutaneous Necrosis Due to Norepinephrine: III. Results of Clinical Use of Regitine Prevention.

A. Stephen Close, M.D., Clin. Invest.; Wood, Wis. (8294)

5406. Subcorneal Pustular Dermatosis and Erythema Multiforme.

David W. Kersting, M.D., Ch. Derm. and Syphil. Sec., VAC; Roger Laubenheimer, M.D., Attend. VAC, Clin. Instr. Derm., Marquette; Wood, Wis. (9763)

5407. Evaluation of Buccally Administered Streptokinase in the Treatment of Decubitus Ulcers.

Mark W. Garry, M.D., Ch. Med. Serv.; Wood, Wis. (9764)

5408. Study of Regional Hyperthermia and Hypothermia.

Joseph C. Darin, M.D., Resident Surg., VAC; Jack L. Teasley, M.D., Attend. Plastic-Maxillofacial Surg., VAC, Clin. Instr. Plastic and Reconstructive Surg., Marquette; William H. Frackelton, M.D., Cons. Plastic Surg., VAC, Assoc. Clin. Prof. and Head Div. Plastic and Reconstructive Surg., Marquette; Wood, Wis. (9765)

5399. Newer Histologic Stain Techniques in Human Skin.

Robert P. Arthur, M.D.; Chief, Dermat. Branch, Philadelphia, Pa.

5400. Study of Wound Healing by Sampling Tissue Contents from Implanted Hollow Glass Tubes.

William Weiss, M.D., Clin. Prof., VAH; Assoc. Prof., Plastic Surg., Univ. Med. Sch.; Lanier H. Forster, M.D., Resident, Hand Surg., Rutgers Univ., Jersey City, N.J.

5401. Histochemical Study of Carcinogenic Granulomas.

Edwin B. Tilney, M.D., Asst. Clin. Path.; John Tait, Med. Tech., Univ. of Pittsburgh Sch. of Med., Pittsburgh, Pa.

5402. Clinico-Epidemiologic Studies of Rheumatoid Arthritis.

Forrest M. Willett, M.D., Ch., Med. Serv., VAH; E. P. Engelman, M.D., Attend., VAH; Assoc. Clin. Prof. Med., Univ. of California Sch. of Med.; C. W. Boehle, Ph.D., Div. Med. Sciences, Univ. of California, San Francisco, Calif. (6499)

5403. Rheumatoid Arthritis in Veterans of World War II.

Eugenia P. Engelman, M.D., Assoc. Clin. Prof. Med., Univ. of California Sch. Med.; Forrest M. Willett, M.D., Ch. Med. Service, VAH; Robert W. Kelly, M.D., Chief, Epidemiology Section, Veterans Administration, Washington, D.C.; San Francisco, Calif. (6750)

5404. Behavior of Mucosal Autografts in Ectopic Sites.

John W. Hall, M.D., Ch. Surg. Serv.; Grandon R. Toledo, M.D., Resident Surg.; Seattle, Wash. (6941)

5405. Cutaneous Vessels Due to Norepinephrine: III. Results of Clinical Use of Regitine Prevention.

A. Stephen Cloon, M.D., Clin. Invest.; Wood, Wis. (8294)

5406. Subperneal Pustular Dermatosis and Erythema Multiforme.

David W. Rawling, M.D., Ch. Derm. and Syphil. Sec., VAC; Roger Lambshimer, M.D., Attend., VAC, Clin. Instr. Derm., Marquette; Wood, Wis. (9763)

5407. Evaluation of Buccally Administered Streptokinase in the Treatment of Decubitus Ulcers.

Max H. Garry, M.D., Ch. Med. Serv.; Wood, Wis. (9764)

5408. Study of Regional Hyperthermia and Hyperpyrexia.

Joseph C. Dorin, M.D., Resident Surg., VAC; Jack L. Teasley, M.D., Attend., Plastic-Maxillofacial Surg., VAC, Clin. Instr. Plastic and Reconstructive Surg., Marquette; William H. Freckelton, M.D., Cons. Plastic Surg., VAC, Assoc. Clin. Prof. and Head Div. Plastic and Reconstructive Surg., Marquette; Wood, Wis. (9765)

12. Bone and Joint Diseases

5409. An Evaluation of Diagnostic Tests for Rheumatoid Arthritis.

William Mikkelson, M.D., Asst. Prof. Intern. Med., Univ. of Michigan; Constance Hertz, M.S., Ch. Bact. Sec., VAH; Elsa Braun, B.S., Med. Tech., Univ. of Michigan; William Coulter, M.S., Med. Tech., Univ. of Michigan; Ann Arbor, Mich. (2148)

5410. The Metabolic Distribution of a Gamma Emitting Short Half-Lived Isotope of Calcium, Calcium-47.

Donald R. Korst, M.D., Act. Ch. RI Serv.; Charles T. Knorpp, Asst. Ch. (Scien.) RI Serv.; Mary H. Rennie, RI Scien. (Radiol. Safety), VAH; Ardath H. Emmons, Lab. Super., Phoenix Proj., and Lecturer in Nuclear Engin., Univ. of Michigan; Ann Arbor, Mich. (2211)

5411. The Bone Calcium Distribution of Metastatic Carcinoma of the Bone Using Ca-47 & Sr-85.

Donald R. Korst, M.D., Act. Ch. RI Serv.; Charles T. Knorpp, Asst. Ch. RI Serv.; Mary H. Rennie, RI Scien. (Radiol. Safety); Ann Arbor, Mich. (2213)

5412. Osteoradionecrosis of the Jaws: Causes and Effect.

R. C. Ingram, D.D.S., Ch. Dent. Serv., VAH; C. A. Waldron, D.D.S., Cons. Oral Path., VAH, Prof. Path., Emory Univ. Sch. of Dent.; Atlanta, Ga. (2242)

5413. Studies on the Diurnal Pattern of Urinary 17-Hydroxycorticosteroid and 17-Ketosteroid Excretion in Patients With Rheumatoid Arthritis.

S. Richardson Hill, Jr., M.D., Ch. Metab Sect., VAH; Howard L. Holley, M.D., Cons. Arth., VAH, Assoc. Prof. Med., Med. Coll. of Alabama; Willard R. Starnes, Ch. Biochem. Med. Research Lab., VAH; Birmingham, Ala. (2589)

5414. The Exchange and Equilibration Characteristics of Potassium in Rheumatoid Arthritis and Other Disease States as Determined by the Use of Potassium-42.

Howard L. Holley, M.D., Cons., VAH, Assoc. Prof. Med., Med. Coll. of Alabama; Ernest S. Tucker III, M.D., Fellow in Path., Med Coll. of Alabama; William E. Martindale, Biochem., VAH; James A. Pittman, Jr., M.D., Ch. RI Serv.; William L. Hawley, M.D., Cons., VAH, Assoc. Prof. Clin. Med., Med. Coll. of Alabama; Birmingham, Ala. (2633)

5415. The Exchange and Equilibration Characteristics of Manganese in Disseminated Lupus Erythematosus as Determined by Use of Mn-54.

Howard L. Holley, M.D., Assoc Prof. Med., Med. Coll. of Alabama; Ernest S. Tucker III, Med. Student, Med. Coll. of Alabama; William E. Martindale, Biochem. RI Serv., VAH; William L. Hawley, M.D., Ch. RI Serv.; Marshall S. Little, Biochem. RI Serv.; James W. Woods, Ph. D., Cons. VAH, Asst. Prof. Biochem., Med. Coll. of Alabama; Birmingham, Ala. (2635)

5416. Moore Arthroplasties.

S. Monaghan, M.D., Resident, Orth. Serv.; E. Nalebuff, M.D., Resident, Orth. Serv.; Boston, Mass. (2697)

5417. Immediate and Delayed Neurological Complications Following Spinal Anesthesia.

D. Mahler, M.D., Ch. Anes.; Patricia G. Weeks, M.D., Asst. Ch. Anes. Sec.; Boston, Mass. (2701)

5418. Studies in the Metabolism of Hydroxproline in Rheumatoid Arthritic Patients.

Joseph M. Looney, M.D., Ch. Clin. and Research Lab., VAOC; Henry M. Lemon, M.D., Cons., VAOC, Assoc. Prof. Med., Boston Univ. Sch. of Med.; Boston, Mass. (3053)

5419. Citric Acid Metabolism in Patients With Bone Disease.

Henry M. Lemon, M.D., Cons., VAOC, Assoc. Prof. Med., Boston Univ. Sch. of Med.; J. H. Mueller, Student, Boston Univ. Sch. of Med.; Joseph M. Looney, M.D., Ch. Lab., VAOC; William H. Chasen, M.D., Ch. Arth. Clinic; Boston, Mass. (3054)

5420. The Determination of Amino Poly Saccharides in the Urine of Arthritic Patients.

Joseph M. Looney, M.D., Ch. Lab.; Henry M. Lemon, M.D., Cons., VAOC, Assoc. Prof. Med., Boston Univ. Sch. of Med.; Boston, Mass. (3057)

5421. Evaluation of 11-Oxygenated Anabolic Steroids in Rheumatoid Arthritis.

Henry M. Lemon, M.D., Research Cons., VAOC, Assoc. Prof. Med., Boston Univ. Sch. of Med.; William H. Chasen, M.D., Ch. Arth. Clinic, VAOC; Boston, Mass. (10070)

5422. Clinical Studies in Arthritis.

William H. Chasen, M.D., Ch. Arth. Clinic, VAOC; Henry M. Lemon, M.D., Research Cons., VAOC, Assoc. Prof. Med., Boston Univ. Sch. of Med.; Boston, Mass. (10071)

5423. Activation of Gamma Globulin and Further Purification and Characterization of the Factor Present in Sera of Patients With Active Peripheral Rheumatoid Arthritis.

Eric H. Pollaczek, Ph. D., Biochem., Gen. Med. Research Lab.; Maria Eloisa Rivera, Biochem., Gen. Med. Research Lab.; Bronx, N.Y. (10114)

5424. Removal of the Posterior Spinal Arch in the Treatment of Spondylolithesis.

Erich G. Krueger, M.D., Ch. Neurosurg. Sec.; Sidney N. Eichenholtz, M.D., Attend. Cons. Orth. Surg.; Bronx, N.Y. (10115)

5425. Recurrent Interior Dislocation of Shoulder—Evaluation of New Procedure.

Sigmund E. Chessid, M.D., Ch. Orth. Surg. Sec.; Brooklyn, N.Y. (2892)

5426. A Dynamic Approach to the Pre- and Post-Prosthetic Training of Hemipelvectomy Patients.

Milton Holtzman, M.D., Ch. PMR Serv.; Sigmund E. Chessid, M.D., Ch. Orth. Surg. Sec.; Theodore F. Childs, M.A., Ch. Phys. Therapy Sec.; Brooklyn, N.Y. (2912)

5427. Development of a Pattern Agglutination Test for Rheumatoid Arthritis.

George Ostroff, M.A., Serol., Lab. Serv.; Mary Troisi, Ph. Ch., Tech., Lab. Serv.; Hyman Katz, M.D., Ch. Gen. Med. Sec.; Brooklyn, N.Y. (10800)

5428. Relationship to Rheumatoid Arthritis of Its So-Called Variants.

Currier McEwen, M.D., Cons., VAOC, Assoc. Prof. Med., New York Univ.; Morris Ziff, M.D., Collab., Prof. Intern. Med., Univ. of Texas; Philip D. Carmel, M.D., Phys. Med. Serv., VAOC; Domenic DiTata, M.D., Phys. Med. Serv., VAOC; Martin Tanner, M.D., Collab., Research Asst., Rheumatic Diseases, New York Univ.; Brooklyn, N.Y. (2828)

5429. Normal Variations in the Skeleton Considered Abnormal.

Otto Fliegel, M.D., Ch. Surg. Serv.; Charles Sutro, M.D., Collab. Surg., Hosp. for Joint Diseases; Morris Witten, M.D., Radiol. Serv., VAOC; Brooklyn, N.Y. (2831)

5430. Low Back Syndrome Associated With Lesions in the Thoracic Spine.

Charles J. Sutro, M.D., Collab. Surg., Hosp. for Joint Diseases; David E. Ehrlich, M.D., Ch. Radiol. Serv., VAOC; Brooklyn, N.Y. (2834)

5431. Juxta-articular Ossification of Ligaments and Tendons.

Charles J. Sutro, M.D., Collab. Surg., Hosp. for Joint Diseases; David E. Ehrlich, M.D., Ch. Radiol. Serv., VAOC; Morris Witten, M.D., Radiol. Serv., VAOC; Brooklyn, N.Y. (2835)

5432. On the Etiology of Scheuerman's Disease (Adolescent Kyphosis).

Otto Fliegel, M.D., Ch. Surg. Serv.; David E. Ehrlich, M.D., Ch. Radiol. Serv.; Morris Witten, M.D., Radiol. Serv., VAOC; Brooklyn, N.Y. (2836)

5433. Administration of Steroids by Iontophoresis for Arthritis.

Philip D. Carmel, M.D., Phys. Med. Serv.; Samuel G. Feuer, M.D., Ch. PMR, VAOC; Brooklyn, N.Y. (8685)

5434. Talo-Tibial Stress Angle.

Gustav Rubin, M.D., F.A.C.S., Surg. Serv.; Morris Witten, M.D., Radiol. Serv., VAOC; Brooklyn, N.Y. (8686)

5435. Comparative Sensitivity of Various Tests for Rheumatoid Factor.

Currier McEwen, M.D., Cons., VAOC, Assoc. Prof. Med., New York Univ.; Edward Franklin, M.D., Collab., Asst. Prof. Med., New York Univ.; Philip D. Carmel, M.D., Phys. Med. Serv., VACO; Domenic DiTata, M.D., Phys. Med. Serv.; Martin Tanner, M.D., Collab., Senior Research Asst., Rheum. Diseases, New York Univ.; Brooklyn, N.Y. (9076)

5436. Study of the Effect of Ultrasound Treatment on Shoulder Conditions after Lung Resection and Post-Thoracoplasty Operation.

Jacob Goldberg, M.D., Ch. PMR Serv.; Castle Point, N.Y. (3588)

5437. Calcium Kinetics in Metabolic Bone Disease, A Comparison Between Many Clinical Types Using Tracer Balance Techniques.

Richard Goldsmith, M.D., Ch. RI Serv.; Cincinnati, Ohio. (3116)

5438. Study of the Enzyme Spectrum in Synovial Fluid of Both Normal and Pathological States.

Clifford G. Pilz, M.D., Asst. Ch. Med. Serv.; Myron Berman, M.D., Resident, Med. Serv., VAH; Max M. Montgomery, M.D., Attend. Phys., VAH, Assoc. Prof. Med., Univ. Ill. Coll. of Med.; Chicago (W.S.), Ill. (9399)

5439. Alterations in Calcium and Phosphorus Metabolism Associated With Hypoparathyroidism: A Case Study and an Interpretation of Parathormone Function Based Thereon.

Richard Goldsmith, M.D., Ch. RI Serv.; Cincinnati, Ohio. (10941)

5440. Collagen Formation and Deposition in Bone Formation and Bone Grafts.

R. Hass, M.D., Ch. Orth. Serv.; D. O. Brummond, Ph. D., Biochem. RI Serv.; Cleveland, Ohio. (10644)

5441. Physical Medicine and Rehabilitation Procedures in Orthopedic Surgery.

James W. Gibson, M.D., Ch. PMR Serv.; Coral Gables, Fla. (3217)

5442. Delayed Neurological Sequelae of Retained Foreign Body in the Intervertebral Disc Space.

Russell Shroyer, M.D., Ch. Orth. Sec.; Charles H. Fortson, M.D., Resident Surg.; Dayton, Ohio. (12047)

5443. Three-Year Study of Lower Extremity Amputees.

Richard S. Magato, M.A., Ch. Phys. Therapy Dept.; Dayton, Ohio. (12060)

5444. Hydrogen Ion Concentration in Fracture Healing.

Herbert Maruyama, M.D., Orth. Sec.; M. E. Gibbens, M.D., Ch. Orth. Sec., VAH; James Miles, M.D., Dept. Surg., Univ. of Colorado Med. Center; Denver, Colo. (9468)

5445. The Study of Fracture Healing Using the Organ Culture of Embryonic Avian Limb Bones.

J. K. Weaver, M.D., Surg. Resident, VAH; J. Miles, M.D., Chm. and Head Dept. Orth., U. of Colo. Sch. of Med., Denver; M. Gibbens, M.D., Ch. Orth. Serv., VAH; J. Tong. Ph. D., Ch. TB Research, VAH; Denver, Colo. (9469)

5446. Fracture Healing After Fixation With Intramedullary Nails and 18–8 SMD Stainless Steel Bands.

M. E. Gibbens, M.D., Ch. Orth. Sec.; W. Mott, M.D., Orth. Sect., VAH; Francis Candlin, D.V.M., Prac. Vet.; Denver, Colo. (9470)

5447. Pilot Study of the Feasibility of Flexor Tendon Homografts Utilizing Tendon Sheath as Well.

J. D. Liedholt, M.D., Orth. Sec.; Denver, Colo. (9471)

5448. A Study of Intra-Articular Serotonin in Animals.

Charley J. Smyth, M.D.; T. A. Witten, M.D., Asst. Ch. Med. Serv.; Oren B. Gum, M.D.; Eugene Emeson, M.D.; Denver, Colo. (9472)

5449. Sympathectomy for the Relief of Arthritic Pain.

Carl C. Hoffman, M.D., Ch. Phys. Med. Serv.; D. J. Berman, M.D., Med. Resident; Charley Smyth, M.D., Rheumatol. Cons.; P. G. Cornish, M.D., Surg. Resident; W. Silen, M.D., Asst. Ch. Surg. Serv.; B. Eiseman, M.D., Ch. Surg. Serv.; Denver, Colo. (9473)

5450. A Study of Factors Involved in Pulmonary Osteoarthropathy With Particular Emphasis on Peripheral Circulatory Changes.

H. O. Sieker, M.D., Asst. Ch. Med. Serv.; Durham, N.C. (3888)

5451. Induction of New Bone Growth.

Frank Bassett, M.D., Resident Path.; Albert G. Smth, M.D., Asst. Ch. Lab. Serv.; Durham, N.C. (9550)

5452. Evaluation of Ultra-Sound in the Treatment of Arthritis.

Charles R. Brooke, M.D., Ch. PMR Serv.; Dinah M. Selvin, B.A., Ch. Phys. Therapy; East Orange, N.J. (3997)

5453. An Evaluation of Electromyography as a Diagnostic Procedure in Low Back Syndrome.

Earl F. Hoerner, M.D., Cons., PMR Serv.; Charles R. Brooke, M.D., Ch. PMR Serv.; Nicholas Panin, M.D., Asst. Ch. PMR Serv.; Dinah M. Selvin, B.A., Ch. Phys. Therapy, PMR Serv.; East Orange, N.J. (9423)

5454. The Use of Ostamer in Pathological Fractures and Bony Defects.

William B. Sulmonetti, M.D., Ch. Orth. Serv.; Fresno, Calif. (9436)

5455. To Study the Effect of Compression in the Healing of Fractures of Cortical Long Bones.

Gerald S. Laros, M.D., Resident, Surg. Serv.; Theodore Fields, M.S., Radiophys RI Serv.; Ervin Kaplan, M.D., Act. Assoc. Dir. RI Serv.; Hines, Ill. (4260)

5456. The Synthesis of Collagen in Growing Bone.

I. Gordon Fels, Ph. D., Biochem., RI Serv.; Ervin Kaplan, M.D., Act. Assoc. Dir., RI Serv.; Roger L. Veatch, M.S., Biochem. RI Serv.; Hines, Ill. (4329)

5457. The Effect of Proline Antagonists on Bone Collagen Synthesis.

I. Gordon Fels, Ph. D., Biochem., RI Serv.; Ervin Kaplan, M.D., Act. Assoc. Dir., RI Serv.; Hines, Ill. (4330)

5458. The Localization *In Vivo* of Phosphorus 32 From Condensed Phosphates.

I. Gordon Fels, Ph. D., Biochem. RI Serv.; Ervin Kaplan, M.D., Act. Assoc. Dir. RI Serv.; Joseph Greco, B.S., Biochem. RI Serv.; Roger L. Veatch, M.S., Biochem. RI Serv.; Hines, Ill. (4333)

5459. An Ultrasonic Technique for the Evaluation of Bone Fractures.

George T. Anast, M.D., Resident, Surg. Serv.; Theodore Fields, M.S., Radiophys. RI Serv.; Irwin M. Siegel, M.D., Resident, Surg. Serv.; Hines, Ill. (4342)

5460. The Amount of Bony Change Present in Various Forms of Sickle Cell Disease.

Otto Bouc, Jr., M.D., Resident, Orth. Sec. Surg. Serv.; Ervin Kaplan, M.D., Act. Assoc. Dir., RI Serv.; William Donnelly, M.D., Ch. Hemat. Sec.; Samuel A. Leader, M.D., Ch. Radiol. Serv. VAH, Chicago; Frederick W. Hark, M.D., Cons., Orth. Sec. VAH, Clin. Prof. Orth. Surg., Univ. of Illinois Col. of Med.; Robert D. Ray, M.D., Cons. Orth. Sec. Surg. Serv., VAH, Chicago, Prof. and Head Orth. Surg. Dept., Univ. of Illinois Coll. of Med.; Hines, Ill. (10374)

5461. Clinical Evaluation of 6 Methyl Prednisolone in the Treatment of Rheumatoid Arthritis.

George W. Curd, Jr., M.D., Staff Phys. Med. VAH; Moise D. Levy, Jr., M.D., Attend. VAH, Clin. Assoc. Prof. Med., Baylor Univ.; Oliver R. Smith, Jr., M.D., Staff Phys. VAH; Houston, Tex. (4374)

5462. Study of Blood Supply and Revascularization of Segmental Fractures.

Thomas E. Cain, M.D., Resident Orth. Surg.; Houston, Tex. (4415)

5463. Experimental Production of Cervical Spine Injuries by Use of a Static and Dynamic Testing Machine.

Richard H. Eppright, M.D., Attend. VAH, Clin. Instr. Orth. Surg., Baylor Univ.; Robert L. Brownhill, M.D., Resident, VAH; Houston, Tex. (4417)

5464. Curettage and Electrodesiccation in the Treatment of Skin Cancer.

Thomas W. Lyles, M.D., Resident Derm. VAH; John M. Knox, M.D., Cons. VAH, Asst. Prof. Derm., Baylor Univ.; Richard D. Martin, B.S., Senior Med. Student, Baylor Univ.; Houston, Tex. (9125)

5465. Studies on the Metabolism of Phosphocitric Acid and Pyrophosphocitric Acid.

Joe Meyer, Ph. D., Ch. Gen. Med. Research Lab.; Jesse L. Cashaw, M.S., Biochem.; Houston, Tex. (10946)

5466. A Study of Extensive Osteoporosis in the Middle Aged and Elderly Patient.

Eugene L. Walsh, M.D., Ch. Med. Serv.; Geraldine Crews, B.S., Ch. Clin. Chem. Unit, Lab. Serv.; Huntington, W. Va. (4827)

5467. Study of Osteomalacia and the Relationship of Excessive Calcium Excretion.

Eugene L. Walsh, M.D., Ch. Med. Serv.; Geraldine Crews, B.S., Ch. Clin. Chem. Unit, Lab. Serv.; Huntington, W. Va. (4828)

5468. Gross and Histological Changes in Acetabula of Experimental Animals Following Insertion of Stainless Steel Hip Prosthesis.

J. E. M. Thomson, M.D., Attend. Ch. Orth. Serv.; Erwin P. Wenz, M.D., Resident, Orth. Surg.; Lincoln, Nebr. (6358)

5469. Techniques of Fabrication of Body Braces, Splints and Prosthesis From Fiberglass and Polyester Resins.

J. E. M. Thompson, M.D., Attend. Ch. Orth. Serv.; Schuyler P. Brown, M.D., Ch. Surg. Serv.; Lincoln, Nebr. (6371)

5470. Investigation to Determine the Presence or Absence of a Growth Hormone in Patients with Hypertrophic Osteoarthritis.

Harold R. Hipp, M.D., Ch. Med. Serv.; Jacob Shapira, Ph. D., Prin. Scien. RI Serv.; Little Rock, Ark. (8406)

5471. Measurement of Growth Hormone in Serum by Determination of Sulfur-35 Uptake by Hypophysectomized Rat Cartilage.

Harold R. Hipp, M.D., Ch. Med. Serv.; Jacob Shapira, Ph. D., Prin. Scien., RI Serv.; Little Rock, Ark. (11003)

5472. Deviations and Displacements of the Spine Following Thoracic Surgery.

Paul C. Tsapralis, M.D., Ch. Radiol. Serv.; Wilma-Nell Harmony, B.S., Ch. Phys. Therapy; Livermore, Calif. (5120)

5473. Surgical Procedures in Spondylolysis and Spondylolisthesis.

Richard H. Hall, M.D., Cons.; L. L. Wiltse, M.D., Cons.; S. S. Mathews, M.D., Cons.; R. H. Hutchinson, M.D., Ch. Orth. Sec.; Long Beach, Calif. (5187)

5474. Surgical Management of Tuberculosis Spondylitis.

Richard H. Hall, M.D., Cons.; R. H. Hutchinson, M.D., Ch. Orth. Sec.; Long Beach, Calif. (5188)

5475. A Study of Plastics for External Fixation in Orthopedic Practice.

Robert H. Hutchinson, M.D., Ch. Orth. Serv.; Samuel Mathews, M.D., Cons. Orth.; L. Wiltse, M.D., Cons. Orth.; William Durnin, M.D., Cons. Orth.; Robert Duey, M.D., Resident, Orth.; R. H. Hall, M.D., Cons. Orth.; Long Beach, Calif. (8423)

5476. A Study of Synovial Membrane With the Electron Microscope. Studies to Be Made on Normal and Pathological Synovial Membranes.

Robert H. Hutchinson, M.D., Ch. Orth. Sec.; Joseph R. Goodman, Ph. D., Ch. Phy. Research Unit; Long Beach, Calif. (8424)

5477. Effectiveness of an Intravenous Solution of Robaxin (Brand of Methocarbamol).

Robert Mazet, Jr., M.D., Ch. Orth. Serv.; Los Angeles, Calif. (5776)

5478. A Study of the Incidence and Associated Pathologic Conditions of 100 Males Suffering From Osteoporosis.

Marshall R. Urist, M.D., Attend. Orth. Surg., VAC, Assoc. Clin. Prof. Surg., Univ. of California at Los Angeles, Med. Center; Paul J. Vincent, M.D., Clin. Asst. Orth., VAC; Los Angeles, Calif. (8453)

5479. A Proposed Method of Intervertebral Body Fusion Using Corrugated Fasteners.

Thomas J. Connelley, M.D., Ch. Resident Neurosurg.; Louisville, Ky. (10754)

5480. Alkaptonuric Ochronosis.

Louis Y. Peskoe, M.D., Ch. GI; Louisville, Ky. (10771)

5481. Use of Plaster of Paris (Calcium Sulphate) as Bone Replacement.

George A. Higgins, M.D., Ch., Surg. Serv., VAH; Leonard F. Peltier, M.D., Cons. VAH, Asst. Prof. Orthop. Surg., Univ. of Kans. Med. Cen.; Charles E. Workman, M.D., Resident in Med., VAH; John L. Barnard, M.D., Cons. VAH, Asst. Prof. Orthopedic Surg., Univ. of Kans. Med. Cen.; Kansas City, Mo. (9619)

5482. The Effect of Probenecid on the Synthesis of Uric Acid in Normal and Gouty Subjects.

Thomas J. Rankin, M.D., Dir. Prof. Serv.; William W. Woodward, M.D., Resident Med.; Berton C. Pressman, Ph. D., Biochem., RI Serv.; David V. Cohn, Ph. D., Prin. Scien. RI and Research Lab.; Kansas City, Mo. (9620)

5483. Effect of Brief Maximal Exercised on the Strength of the Quadriceps Femoris.

Donald L. Rose, M.D., Prof. Phys. Med., Univ. Kansas Med. Center; Ralph R. Beatty, M.D., Ch. PMR, VAH; Stanley F. Radzyminski, M.D., Ch. PMR, VAH; Kansas City, Mo. (9621)

5484. Connective Tissue VI: Turnover Rates Mucopolysaccharides.

Doris M. Hilker, Ph. D., Biochem., Geriatrics Research Lab.; Joy R. Hopper, B.S., Biochem., Geriatrics Research Lab.; Thomas H. McGavack, M.D., Ch., Intermed. Serv.; Martinsburg, W. Va. (10825)

5485. Effect of Subperiosteal Metallic Implants on Bone and Soft Tissue.

Robert T. Holt, D.D.S., Ch. Dent. Serv.; James R. Cobb, D.D.S., Rotating Dent. Intern; Memphis, Tenn. (5946)

5486. Reaction of Bone to the Insertion of Intramedullary Wooden Plug in Dogs.

Dana M. Street, M.D., Ch. Orth. Surg. Sec.; Memphis, Tenn. (6059)

5487. Posterior Dislocation of the Shoulder.

Dana M. Street, M.D., Ch. Orth. Sec., Surg. Serv.; Memphis, Tenn. (6075)

5488. Spine Fusion with Plaster of Paris.

Dana M. Street, M.D., Ch. Orth. Surg. Sec.; Memphis, Tenn. (6077)

5489. Rotation Osteotomy of the Femur.

Norman H. Eckbold, M.D., Resident Surg.; Dana M. Street, M.D., Ch. Orth. Sec., Surg. Serv.; Memphis, Tenn. (6078)

5490. Anomalous Shoulder Joint.

Dana M. Street, M.D., Ch. Orth. Sec., Surg. Serv.; William R. Wolverton, M.D., Resident Surg.; Memphis, Tenn. (6090)

5491. Life Stress, Dependency Needs, and Hostile Impulses as Etiological Factors in Rheumatoid Arthritis.

Alfred D. Mueller, Ph. D., Ch. Psychol. Serv.; Aaron M. Lefkovits, M.D., Ch. Gen. Med. and Rheumat. Sec.; John E. Bryant, Ph. D., Clin. Psychol.; Max. L. Marshall, Ph. D., Clin. Psychol.; Memphis, Tenn. (6096)

5492. Transplantation and Regeneration of Articular Cartilage in Joints of Immature Animals.

W. Scott Gilmer, Jr., M.D., Asst. Prof. Path., Univ. of Tennessee; Joseph M. Young, M.D., Ch. Lab. Serv., VAH; Memphis, Tenn. (9025)

5493. Experimental Device for Below Knee Prosthesis.

Harry J. Bugel, M.D., Ch. PMR Serv.; Nashville, Tenn. (5350)

5494. Ectopic Bone Formation in Surgical Incision.

Kenneth L. Classen, M.D., Senior Asst. Resident Surg.; Nashville, Tenn. (9981)

5495. Study of Pathogenesis of Traumatic Fat Embolization.

Innes A. Nelson, M.D., Resident, Surg. Serv.; R. O. Christensen, M.D., Asst. Ch. Lab. Serv.; Nashville, Tenn. (9982)

5496. Results of Rehabilitation of Paraplegia.

Cecil W. Painter, Asst. Ch. Phys. Therapy; Nashville, Tenn. (9983)

5497. Results in Rehabilitation of Hemiplegic Patients.

Miss Betsy Cobb, Ch. Phys. Therapy; Nashville, Tenn. (9984)

5498. Isometric Contraction as a Home Therapeutic Resistive Exercise for Patients Following Meniscectomy.

Harry J. Bugel, M.D., Ch. PMR Serv.; Nashville, Tenn. (9985)

5499. Electromyographic Studies to Demonstrate Cross Education in Patellectomized Patients.

Harry J. Bugel, M.D., Ch. PMR Serv.; Nashville, Tenn. (9986)

5500. Use of the Intermediate Prosthesis in Lower Extremity Amputees.

Harry J. Bugel, M.D., Ch. PMR Serv.; Nashville, Tenn. (9987)

5501. Studies on Bone Phosphatase.

Joe Meyer, Ph. D., Prin. Scien. RI Serv.; Ivo J. Stakelum, Jr., B.S., Phys. Science Aid (Chem.), RI Serv.; New Orleans, La. (6442)

5502. Analytical Method for Phosphocitrate.

Joe Meyer, Ph. D., Prin. Scien. RI Serv.; Ivo J. Stakelum, Jr., B.S., Phys. Scien. Aid (Chem.) RI Serv.; New Orleans, La. (6443)

5503. Is Phosphocitrate Present in Blood?

Joe Meyer, Ph. D., Prin. Scien. RI Serv.; Ivo J. Stakelum, Jr., B.S., Phys. Science Aid (Chem.), RI Serv.; New Orleans, La. (6444)

5504. The Influence of Calcium Phospho- and Pyrophosphrocitrate on Bone Repair.

Joe Meyer, Ph. D., Prin. Scien. RI Serv., VAH; Jack H. Wickstrom, M.D., Prof. Orth. Surg., Tulane Med. Sch.; New Orleans, La. (6445)

5505. Role of Vitamin D in Citrate Synthesis by Cartilage.

Joe Meyer, Ph. D., Prin. Scien. RI Serv.; Ivo J. Stakelum, Jr., B.S., Phys. Science Aid (Chem.) RI Serv.; New Orleans, La. (6446)

5506. An Investigation of the Composition and Significance of Peptides of Human Urine Which Contain Hydroxyproline; the Composition of Such Peptides in Normal Individuals and in Patients With Rheumatic Disease.

Andre C. Kibrick, Ph. D., Ch. Biochem. Sect.; New York, N.Y. (6482)

5507. Use of Intravenous Colchicine in Arthritis.

J. James Smith, M.D., Ch. Med. Serv., VAH; John Baum, M.D., Fellow Med., New York Univ. Bellevue Med. Center; New York, N.Y. (6508)

5508. Zoxazolamine (Flexin) as a Uricosuric Agent.

L. Fred Ayvazian, M.D., Asst. Ch. Med. Serv.; George N. Tsamparlis, M.D., Clin. Asst. Med. Serv.; New York, N.Y. (11027)

5509. Comparison of Findings on X-Ray Between Peripheral Rheumatoid Arthritis and Ankylosing Spondylitis.

D. DiTata, M.D., Ch. Arth. Clinic,; William Gersh, M.D., Ch. Radiol. Unit, VARO; Currier McEwen, M.D., Cons., VARO, Prof. Med., New York Univ. Sch. of Med.; New York, N.Y. (6452)

5510. Investigation of the Mucopolysaccharides of Costal Cartilage in Health and Disease.

George H. Stidworthy, Ch. Biochem., VAH; Marvin R. Shetlar, Ph. D., Assoc. Prof. Biochem., Oklahoma Univ. Med. Sch.; Yanna F. Masters, Tech., VAH; Oklahoma City, Okla. (6896)

5511. Clinical Evaluation of "SOMA."

Daniel J. McCarty, M.D., Resident, Med. Serv.; Ralph M. Myerson, M.D., Asst. Ch. Med. Serv.; Philadelphia, Pa. (8942)

5512. A Metabolic Study Using Deladumone.

James S. Deakins, M.D., Ch. Orth. Sect.; Ralph M. Myerson, M.D., Asst. Ch. Med. Serv.; Philadelphia, Pa. (9951)

5513. Early Diagnosis of Congenital Hip Dysplasia (Axial Hip View).

Samuel L. Cohen, M.D., Radiol.; Phoenix, Ariz. (6985)

5514. I^{131} Clearance Rates as an Indication of the Blood Supply of Bone.

Patrick G. Laing, M.D., Ch. Orth. Serv., VAH; Albert B. Ferguson, M.D., Cons., Prof. Orth. Surg., Univ. Pittsburgh Sch. Med.; Pittsburgh (Univ. Dr.), Pa. (11079)

5515. Cranial Reconstruction with Ethylenediamine Treated Bone.

Hubert L. Rosomoff, M.D., Ch. Neurosurg.; Pittsburgh (Univ. Dr.), Pa. (11091)

5516. Myotonic Dystrophy: Evaluation of Neuromuscular and Endocrine Disturbances; Cardiovascular and Pulmonary Changes.

Leonard W. Ritzmann, M.D., Ch. Med. Serv.; William W. Thompson, M.D., Resident, Inter. Med.; Portland, Oreg. (7145)

5517. The Arteriolar Involvement in Various Bone Diseases.

Zolton T. Wirtschafter, M.D., Asst. Dir. Prof. Serv. for Research; Ernest J. Losli, M.D., Ch. Lab. and Path. Serv.; Portland, Oreg. (7151)

5518. The Effect of Antihistamine and Cortisone on Fat Embolism in Rabbits.

Rolland C. Merrifield, M.D., Ch. Orth. Sect.; Joe B. Davis, M.D., Attend. Orth.; Portland, Oreg. (7152)

5519. Experimental Revascularization of the Fractured Humerus in Rabbits by Means of Muscle Implants Through a Cortical Window.

Rolland C. Merrifield, M.D., Ch. Orth. Sect.; Joe B. Davis, M.D., Attend. Orth.; Lawrence C. Folkes, M.D., Orth. Resident; Portland, Oreg. (7156)

5520. Latex Fixation for Rheumatoid Arthritis.

A. L. Rosenzweig, M.S., Bact. Clin. Lab.; Richmond, Va. (7222)

5521. Study of Percentile Muscle Tension by Electromyography.

Floyd H. Jergesen, M.D., Attend. VAH, Assoc. Clin. Prof. Orth. Surg., Univ. of California Sch. Med.; Joost Sluis, M.D., Attend. VAH, Clin. Instr. Orth. Surg., Univ. of California Sch. Med.; Forrest M. Willett, M.D., Ch. Med. Serv.; San Francisco, Calif. (7453)

5522. Osteography of Long Bones.

Floyd H. Jergesen, M.D., Attend. VAH, Assoc. Clin. Prof. Orth. Surg., Univ. of California Sch. Med.; Joost Sluis, M.D., Attend. VAH, Clin. Instr. Orth. Surg., Univ. of California Sch. Med.; San Francisco, Calif. (9783)

5523. Follow-up Studies on Disc Surgery.

Manuel Guzmán-Acosta, M.D., Exam. Phys. Orth. Sec.; San Juan, P.R. (7506)

5524. Circumferential Metal Fixation of Fractures.

Harry H. Kretzler, Jr., M.D., Resident Orth., VAH; D. Kay Clawson, Prof. Orth. Surg. Univ. of Washington; John W. Bell, M.D., Ch. Surg. Serv., VAH; Seattle, Wash. (8815)

5525. Pulmonary Function in Marie-Strumpell Arthritis of the Spine.

Attilio D. Renzetti, Jr., M.D., Ch. Chest Dis. Div., VAH; William Nicholas, M.D., Resident Med., State Univ. New York College Med.; Robert Dutton, M.D., Staff Phys., VAH; Leo Jivoff, M.D., Attend. Med.; Syracuse, N.Y. (7786)

5526. A Study of the Metabolism and Excretion of Amino Acids in Disorders of the Musculoskeletal System (Idiopathic Scoliosis, Osteoporosis).

Robert O. Becker, M.D., Ch. Orth. Serv; Syracuse, N.Y. (7806)

5527. Study of Effectiveness of Hydrocortisone Injection for Arthritis and Bursitis.

Francis A. Spellman, M.D., Ch. GI Sec.; Togus, Maine. (7854)

5528. Treatment of Chronic Osteomyelitis.

Andres Grisolia, M.D., Ch. Orth. Sec.; Wadsworth, Kans. (8665)

5529. Aseptic Necrosis of Head of Femur.

Andres Grisolia, M.D., Ch. Orth. Sec.; Wadsworth, Kans. (8566)

5530. Experimental Study of Knee Effusion in Rabbits.

Leonard S. Peltier, M.D., Prof. Orth. Surg., Univ. Kans. Med. Center; Andres Grisolia, M.D., Ch. Orth. Sec., VAC; Wadsworth, Kans. (8896)

5531. Redox Activity of Leukocytes in Various Rheumatic Diseases (Long-Term Clinical Follow-Up).

C. David Cooper, M.D., Clin. Instr. Med., George Washington Univ.; William R. Felts, M.D., Ch. Arthritis Research Prog., VAH; Thomas McP. Brown, M.D., Cons. VAH, Prof. Med., George Washington Univ.; Washington, D.C. (7985)

5532. Management of Connective Tissue Diseases.

Thomas McP. Brown, M.D., Cons. VAH, Prof. Med., George Washington Univ.; Ruth H. Wichelhausen, M.D., Ch. Arth. Unit, VAH; William R. Felts, M.D., Instr. Med., George Washington Univ.; Stewart W. Bush, M.D., Assoc. Med., George Washington Univ.; Lucille B. Robinson, A.B., Bact. Arth. Research Unit., VAH; Harold W. Clark, Ph. D., Assoc. Biochem., George Washington Univ.; Washington, D.C. (7986)

5533. Studies on Agammaglobulinemia.

William R. Felts, M.D., Instr. Med., George Washington Univ.; Harold W. Clark, Ph. D., Assoc. Biochem., George Washington Univ.; Ruth H. Wichelhausen, M.D., Ch. Arth. Research Unit, VAH; Washington, D.C. (7988)

5534. Determination of Serum Protein Abnormalities in Rheumatic Diseases.

Harold W. Clark, Ph. D., Assoc. Biochem., George Washington Univ.; Thomas McP. Brown, M.D., Cons. VAH, Prof. Med., George Washington Univ.; Ruth H. Wichelhausen, M.D., Ch. Arth. Research Unit, VAH; William R. Felts, M.D., Instr. Med., George Washington Univ.; Washington, D.C. (7989)

5535. Study of Plasma Factor in Systemic Lupus Erythematosus (SLE).

C. David Cooper, M.D., Clin. Instr. Med., George Washington Univ.; Harold W. Clark, Ph. D., Assoc. Biochem., George Washington Univ.; William R. Felts, M.D., Instr. Med., George Washington Univ.; Thomas McP. Brown, M.D., Cons. VAH, Prof. Med., George Washington Univ.; Ruth H. Wichelhausen, M.D., Ch. Arth. Research Unit, VAH; Washington, D.C. (7990)

5536. Growth Requirements of Pleuropneumonia-Like Organisms.

Ruth H. Wichelhausen, M.D., Ch. Arthritis Research Unit; Lucille B. Robinson, A.B., Bact., Arthritis Research Unit, VAH; Harold W. Clark, Ph. D., Assoc. Biochem., George Washington Univ.; Washington, D.C. (7993)

5537. Screening of Human Sera for PPLO.

Lucille B. Robinson, A.B., Bact., Arthritis Research Unit; Ruth H. Wichelhausen, M.D., Ch. Arthritis Research Unit; Washington, D.C. (7994)

5538. Posterior Arthrodesis of the Ankle and Subtalar Joints.

Walter B. Crandell, M.D., Ch. Surg. Serv., VAC; O. Sherwin Staples, M.D., Cons. Orth. Surg., VAC, Asst. Prof. Orth. Surg., Dartmouth Coll.; White River Junction, Vt. (8243)

5539. Ankylosing Spondylitis: Types and Nature.

Mark W. Garry, M.D., Ch. Med. Serv.; Wood, Wis. (8260)

5540. A Study of Supraspinatus Tendons.

Mark W. Garry, M.D., Ch. Med. Serv.; Wood, Wis. (8261)

5541. Locomotion Studies Using Interrupted Light Photography.

Paul A. Dudenhoefer, M.D., Ch. PMR Serv.; Robert W. Boyle, M.D., Cons. PMR Serv., Assoc. Prof. PMR, Marquette; Mary Pat Murray, A.B., Sc. M. Superv. Clin. Tr.; George Spuda, Asst. Ch. Med. Illust. Serv.; A. Bernard Drought, Ph. D., Cons., VAC, Dean, Sch. Eng., Marquette; Wood, Wis. (8281)

5542. Comparative Value and Specificity of Some New Laboratory Tests for Rheumatic Diseases. Tests: 1. Bentonite flocculation test. 2. Latex fixation test. 3. Precipitin test for S.L.E.

Mark W. Garry, M.D., Ch. Med. Serv.; Joaquin F. Lopez, M.D., Ch. Immunohemat. Sect. Lab. Serv.; Wood, Wis. (8285)

5543. A Clinical Comparative Study of Autogenous and Homogenous Bone Grafts.

Peter L. Carnesale, M.D., Ch. Orth. Sect. Surg. Serv.; Jack D. Spankus, M.D., Resident Orth. Surg.; Wood, Wis. (9766)

5544. Evaluation of Para-aminobenzoic Acid Combined With Sodium Salicylate (Pabalater) in Rheumatoid Disease.

Mark W. Garry, M.D., Ch. Med. Serv.; Wood, Wis. (9767)

13. Methods and Techniques

(a) Anesthesia

5545. Comparative Study of Effect of Suction Alone Versus Simultaneous Suction and Oxygen Insufflation Upon the Blood Oxygen Saturation.

Antonio Boba, M.D., Attend. Anes., VAH, Asst. Prof. Anes., Albany Med. Center; John J. Cincotti, M.D., Ch. Gen. Surg. Sect., VAH; Thomas L. Piazza, M.D., Ch. Anes. Sect., VAH; Charles M. Landmesser, M.D., Prof. and Chm. Anes., Albany Med. Center; Albany, N.Y. (2015)

5546. Effect of Spinal Anesthesia on Blood Oxygen Tension.

A. N. Longfield, M.D., Ch. Cardiopulm. Lab.; William Knoll, M.D., Ch. Anes. Serv.; Albuquerque, N. Mex. (2062)

5547. Nisentil, a Supplementary Agent in Nitrous Oxide Anesthesia.

D. Mahler, M.D., Ch. Anes.; Patricia G. Weeks, M.D., Asst; Ch. Anes. Sect.; Boston, Mass. (2700)

5548. Use of Nisentil in Lieu of Narcotics.

Henry I. Lipson, M.D., Ch. Anes. Sect.; Brooklyn, N.Y; (2894)

5549. Evaluation of a New Technic for Hypothermic Anesthesia.

F. J. Lewis, M.D., Attend. Surg., VAH, Prof. Surg., Northwestern Univ.; N. Wetzel, M.D., Attend. Neurosurg., VAH, Assoc. Surg., Northwestern Univ.; J. Valiunas, M.D., Act. Ch. Anes. Sec., VAH; R. Benvenuto, M.D., Fellow, Surg., Northwestern Univ.; M. Holt, B.S., Grad. Stu., Northwestern Univ.; Chicago (Res.), Ill. (3691)

5550. Development of Mechanical Aids for General Anesthesia.

Floyd John Lewis, M.D., Attend. Surg., VAH, Prof. Surg.; Northwestern; Jonas A. Valuinas, M.D., Act. Ch. Anes. Sec., VAH; Nicholas Wetzel, M.D., Attend. Neurosurg., VAH, Asst. Prof. Surg., Northwestern; Thomas W. Shields, M.D., Surg. Serv. VAH; Thomas E. Starzl, M.D., Resident, Surg.; Chicago (Res.), Ill. (9106)

5551. Study of Nor-Morphine as an Analgesic Drug.

Max Sadove, M.D., Univ. of Illinois R&E Hosp.; Flory Wagenaar, M.D., VAH, Chicago (Res.), Ill.; Arun Sen, M.D., Univ. of Illinois R&E Hosp.; Lyndon Lee, M.D., VACO, Washington, D.C.; Nathan Eddy, M.D., U.S. Public Health Serv.; Bethesda, Md. (8536)

5552. Rapid Slide Technic for Double Diffusion Agar Precipitin Test.

Vincent J. Yakulis, B.S., Serol. Research Lab.; Paul Heller, M.D., Asst. Dir. Prof. Serv. for Research; Chicago (W.S.), Ill. (9400)

5553. Electrocardiographic Findings During Anesthesia With Head and Neck Cyanosis.

Francis J. LoPinto, M.D., Ch. Anes. Sec.; Coral Gables, Fla. (3211)

5554. To Investigate the Oxidation Metabolism of Pseudomonas Aeruginosa to Determine if Differentiation by this Function is Practical.

Royal H. Sorensen, Bact.; Fresno, Calif. (8409)

5555. Comparative Effects of Various General Anesthetics on Blood pH and pCO_2.

Louis J. Cenni, M.D., Ch. Surg. Serv.; Robert F. Linnemeyer, M.D.; Sebel V. Hands, M.D., Ward Phys. Surg. Serv.; Grand Junction, Colo. (10147)

5556. Cost of Anesthesia.

Max Sadove, M.D., Ch. Anes. Sec.; John R. Baker, M.D., Resident, Surg. Serv.; Hines, Ill. (4222)

5557. Hypothermia With Various Drugs.

Max Sadove, M.D., Ch. Anes. Sec.; Myron J. Levin, M.D., Staff Phys. Anes. Sec.; Hines, Ill. (4235)

5558. The Clinical Evaluation of the Use of a Transistorized Cardiac Monitor in General Anesthesia.

Ervin Kaplan, M.D., Act. Assoc. Dir., RI Serv.; Myron J. Levin, M.D., Staff Phys., Anes. Sec.; Max Sadove, M.D., Ch. Anes. Sec.; Theodore Fields, M.S., Radiophys.; Hines, Ill. (4259)

5559. Electroencephalography in the General Operating Room.

Max Sadove, M.D., Ch. Anes. Sect., Surg. Serv.; Dorothy Becka, EEG Tech., Neur. Serv.; Robert Taylor, EEG Tech., Neur. Serv.; Hines, Ill. (4279)

5561. Evaluation of an Injectable Non-barbiturate ("Doriden") as an Anesthetic Agent.

Walter H. Mannheimer, M.D., Ch. Anes. Sect.; Houston, Tex. (4418)

5562. The Action of Neomycin, Administered Intraperitoneally, Upon Striated Muscles and Production of Apnea in Wake or Anesthetized Dogs.

Winnie J. Sosebee, M.D., Asst. Ch. Anes. Sect.; Walter H. Mannheimer, M.D., Ch. Anes. Sect.; Houston, Tex. (4419)

5563. Serum Cholinesterase: The Influence of Time on its Activity in Stored Banked Blood.

H. Fielding Fromberg, M.D., Resid. Anes.; Walter H. Mannheimer, M.D., Ch. Anes. Sect., VAH; Arthur S. Keats, M.D., Chm. and Prof. Anes., Baylor; Houston, Tex. (8959)

5564. The Ventilatory Effects of High Spinal Anesthesia.

Leo J. DeBacker, M.D., Cons. Anes. VAH, Asst. Prof., Coll. Med., State Univ. of Iowa; William K. Hamilton, M.D., Cons. Anes., VAH, Ch. Anes., Coll. Med., State Univ. of Iowa; Iowa City, Iowa. (4869)

5565. Changes in Ocular Tension Associated With Anesthesia.

Frederick D. Staab, M.D., Asst. Ch. Surg. Serv., VAH; Charles B. Pittinger, M.D., Attend. Phys. Anes. VAH, Assoc. Prof. Surg., State Univ. of Iowa Coll. of Med.; Raymond Hyde, M.D., Resident, Anes., VAH; Iowa City, Iowa. (8550)

5566. Serum and Dialysate Levels of Magnesium in Patients With Renal Insufficiency.

Richard L. Lawton, M.D., Surg.; Richard T. Smith, M.D., Staff Phys., Med. Serv.; Lawrence L. Laughlin, M.D., Resident, Surg. Serv.; Iowa City, Iowa. (10305)

5567. A Study of Visceral Dysfunction During Various Stages of Anesthesia.

Robert W. Porter, M.D., Ch. Neurosurg.; Clarabell Caron, R.N., Nurse-Anes. Surg. Serv.; John D. French, M.D., Asst. Dir. Prof. Serv. for Research; Long Beach, Calif. (10786)

5568. Optical and Electron Microscopy of Hepatotoxins.

Paul Ortega, M.D., Path.; John O. Erickson, Ph. D., Biophysicist; S. C. Madden, M.D., Chm. Dept. Path., Univ. of California at Los Angeles; Los Angeles, Calif. (5730)

5569. A Clinical Study of Mikedimide After Barbiturates.

Phyllis F. Shroff, M.D., Asst. Ch. Anes.; William G. Clark, Ph. D., Sect. Ch. Phy.-Pharm.; Los Angeles, Calif. (5760)

5570. Promethazine as an Adjunct to Spinal Anesthesia.

Dorothy Y. Ma, M.D., Ch. Anes. Sect.; Louisville, Ky. (5446)

5571. Use of Nebulized (Tetracaine 1%) Spray for Topical Anesthesia.

Philip W. Fenney, M.D., Ch. Surg. Serv.; Newington, Conn. (6345)

5572. Studies on the Histologic Effect of Local Anesthetics.

Philip Pizzolato, M.D., Asst. Ch. Lab. Serv.; Walter Mannheimer, M.D., Ch. Anes.; New Orleans, La. (6410)

5573. The Use of Transtracheal Anesthesia for Bronchoscopies and Esophagoscopies.

Kenneth E. Bray, M.D., Ch. Anes. Sect.; New Orleans, La. (6429)

5574. Use of Bilateral Glossopharynegal and Vagal Block for Lynch Suspension.

Kenneth E. Bray, M.D., Ch. Anes. Serv.; New Orleans, La. (6430)

5575. Comparative Value of Nasopharyngeal Airways and Oropharyngeal Airways During Anesthesia for Carotid Angiogram and Pneumoencephalogram.

Kenneth E. Bray, M.D., Ch. Anes. Sect.; New Orleans, La. (6431)

5576. Comparative Value of Neraval Versus Pentothal in Anesthesia for Carotid Angiograms and Pneumoencephalograms.

Kenneth E. Bray, M.D., Ch. Anes. Sect.; New Orleans, La. (11130)

5577. The Respiratory Depressant Effect of Analgesics.

James F. Hammarsten, M.D., Ch. Med. Serv; Carl Krieger, Jr., M.D., Ch. Anes. Sec. VAH; Joseph M. White, M.D., Cons. Anes., VAH, Prof. Anes., Oklahoma Univ. Med. Sch.; Oklahoma City, Okla. (6899)

5578. Respiratory Depressant Effects of a New Narcotic.

Bernard Horn, M.D., Resident Phys.; Walter H. Massion, M.D., Research Assoc.; Joseph M. White, M.D., Cons. Phys.; Oklahoma City, Okla. (10062)

5579. A Study of the Acid Base Balance in Anesthetized Patients.

W. P. Kleitsch, M.D., Ch. Surg. Serv.; Omaha, Nebr. (6740)

5580. Deep Local Anesthesia in Peroral Endoscopies.

Herbert J. Adler, M.D., Ch. ENT Serv.; Phoenix, Ariz. (6982)

5581. Electromyographic Studies of the Human Tongue.

Hubert J. Adler, M.D., Ch. ENT Serv.; Phoenix, Ariz. (6983)

5582. Muscle Relaxants in Anesthesia.

William J. Cummings, M.D., Asst. Ch. Anes.; Roland E. Lapointe, M.D., Ch. Anes.; White River Junction, Vt. (8238)

5583. The Effects of Hypothermia as an Adjunct to Anesthesia on the Circulation and Cerebral Activity.

William J. Cummings, M.D., Asst. Ch. Anes.; Roland E. Lapointe, M.D., Ch. Anes.; White River Junction, Vt. (8240)

5584. Controlled Respiration Unit Study.

William J. Cummings, M.D., Asst. Ch. Anes.; Roland E. Lapointe, M.D., Ch. Anes.; White River Junction, Vt. (8242)

(b) Surgery (not elsewhere classified)

5585. Study of 50% Gastrectomy with Vagotomy.

John A. Nelson, M.D., Ch. Surg. Serv.; Albany, N.Y. (2012)

5586. Infrahepatic Vena Cava Ligation in Dogs.

E. J. Margulies, M.D., Resident, Gen. Surg.; J. J. Cincotti, M.D., Ch. Gen. Surg. Sect., VAH; C. S. Welch, M.D., Cons., VAH, Assoc. Prof. Surg., Albany Med. Coll.; Albany, N.Y. (8633)

5587. Evaluation of Changes in the Electrophoretic Patterns in Comparable Operations of Varying Magnitude.

Paul E. Hodgson, M.D., Ch. Surg. Serv., VAH; Walter Block, Ph. D., Assoc. Prof. Biol. & Chem., Univ. of Michigan; Patricia Sommerfeldt, B.S., Research Biochem., VAH; Daniel C. Hunter, M.D., Ch. E. Surg. Sec.; Ann Arbor, Mich. (2164)

5588. Effect of Surgery on Serum Levels of Glutamic-Oxalacetic Transaminase.

Richard D. Judge, M.D., Clin. Invest., VAH; Douglas A. Person, M.D., Resident (Surg.), Univ. Hosp.; Ann Arbor, Mich. (2165)

5589. Quantification of Cerebral Edema and Study of Effect of Hypertonic Solutions on this Edema.

John Tytus, M.D., Act. Ch. Neurosurg.; Paul E. Hodgson, M.D., Ch. Surg. Serv.; Daniel C. Hunter, M.D., Ch. E. Surg. Sect.; Ann Arbor, Mich. (2166)

5590. Evaluation of Thoracic Duct Cannulation as a Means of Measuring Permeability of Retroperitoneal Capillaries.

Paul E. Hodgson, M.D., Ch. Surg. Serv.; Daniel C. Hunter, M.D., Ch. E. Surg. Sect.; Donald R. Korst, M.D., Act. Ch. RI Serv.; Charles T. Knorpp, M.S., Asst. Ch. (Scien.) RI Serv.; Ann Arbor, Mich. (2167)

5591. Evaluation of Plastic Inferior Vena Caval "Sieve" in Phlebothrombosis.

Daniel C. Hunter, M.D., Ch. E. Surg. Sect., VAH; Marion S. DeWeese, M.D., Assoc. Prof. Surg., Univ. of Michigan; Ann Arbor, Mich. (2169)

5592. Evaluation of a Balanced-Buffered Salt Solution in Promoting Wound Healing.

Paul E. Hodgson, M.D., Ch. Surg. Serv.; Daniel C. Hunter M.D., Ch. E. Surg. Sect., VAH; Marion S. DeWeese, M.D., Assoc. Prof. Surg., Univ. of Michigan; William W. Coon, M.D., Instr. Surg., Univ. of Michigan; Ann Arbor, Mich. (2173)

5593. Psychological Aspects of Surgery and Anesthesia.

Julian J. Lasky, Ph. D., Ch. Clin. Psychol.; Gerald Hover, Ph. D., Asst. Ch. Clin. Psychol.; Philip A. Smith, Ph. D., Research Psychol.; Robert S. Shellow, Ph. D., Clin. Psychol. Tr.; Ann Arbor, Mich. (2179)

5594. Evaluation of Intravenous and Oral Calcium Versenate in the Treatment of Lead Poisoning.

James C. Crutcher, M.D., Ch. Med. Serv.; Mary Z. Schumpert, Biochem., Med. Research Lab.; Atlanta, Ga. (2241)

5595. An Evaluation of Skin Preparation in Clean Abdominal Surgery.

J. C. Thoroughman, M.D., Ch. Surg. Serv.; R. A. Vogel, Ph. D., Mycol., Med. Research Lab.; G. W. Gingrich, M.D., Asst. Ch. Surg. Serv.; Atlanta, Ga. (8881)

5596. Relationship of Dislocation of Crystalline Lens in Rabbits to Glaucoma.

F. P. Calhoun, Jr., M.D., Cons. Surg.; W. S. Hagler, M.D., Surg. Serv.; Atlanta, Ga. (9598)

5597. To Study, Using the Clowes Membrane Oxygenerator, the Effects of Varying Times and Rates of Perfusion in the Dog.

R. A. Dillard, M.D., Ch. Surg. Serv.; Birmingham, Ala. (2529)

5598. A Study of the Bronchial Collateral Blood Flow Within a Pulmonary Circuit.

Richard A. Dillard, M.D., Ch. Surg. Serv., VAH; W. F. Simpson, M.D., Resident, Med. Coll. of Alabama; Birmingham, Ala. (2617)

5599. Study of Patients Who Had Femoral Arterial Grafts.

R. A. Dillard, M.D., Ch. Surg. Serv.; Sterling Edwards, M.D., Cons. Surg., VAH, Asst. Prof. Surg. Med. Coll. of Alabama; Birmingham, Ala. (2622)

5600. A New Carotid Artery Clamping Device.

J. H. Drew, M.D., Ch. Neurosurg.; R. Kjellberg, M.D., Resident Neurosurg.; R. Ojemann, M.D., Resident Neurosurg.; W. Cooley, M.D., EENT Resident; Boston, Mass. (2695)

5601. Development of a Device for Remote Control of Electrocautery in the Neurosurgical Operating Room.

John H. Drew, M.D., Ch. Neurosurg.; Boston, Mass. (2699)

5602. Transspinous Angiography of the Inferior Vena Cava.

Robert A. Schobinger, M.D., Sec. Ch. Gen. Surg.; Bronx, N.Y. (8657)

5603. Surgical Procedure for the Repair of Senile (Spastic) Entropion—Movie Film.

Sidney A. Fox, M.D., Cons., Eye Serv., VAH, Assoc. Clin. Prof. Ophth. New York Univ. Post-Grad. Med. Sch.; Abraham H. Haft, M.D., Ch. Eye Serv., VAH; Alvin Zimmerman, M.D., Resident, Eye Serv.; Edwin M. Trayner, M.D., Resident, Eye Serv.; Bronx, N.Y. (8666)

5604. Vascular Patterns of Benign and Malignant Lesions of the Colon. A Radiological and Pathological Correlation.

Robert Schobinger, M.D., Sec. Ch. Gen. Surg.; Geraldine Huss, M.D., Assoc. Path., Lab. Serv.; Bronx, N.Y. (8669)

5605. Transportation and First Aid in Patients with Spinal Cord Injuries.

Erich G. Krueger, M.D., Ch. Neurosurg. Sec., VAH; Ildiko Mohacsy, M.D., Attend. VAH, Research Fellow Psychophy. Lab., New York Univ., Bellevue Med. Center; Bronx, N.Y. (8670)

5606. Arteriovenous Fistula Between the Common Iliac Vessels Report of a Case and Review of Literature.

Kenneth C. Sze, M.D., Sec. Ch. Thoracic Surg.; Robert Schobinger, M.D., Sec. Ch. Gen. Surg.; Philip Cooper, M.D., Ch. Surg. Serv.; Bronx, N.Y. (8671)

5607. Difficulties Encountered in the Use of Tranquilizing Drugs in Ophthalmic Surgery.

Martin Bernstein, M.D., Ch. Resident, Ophth. Serv.; Joseph E. Pisetsky, M.D., Act. Asst. Ch. Psychiat. & Neur. Serv.; Bronx, N.Y. (8672)

5608. Osteoma of Frontal Sinus with Intracranial Complication: A Case Report.

Erich G. Krueger, M.D., Ch. Neurosurg. Sec.; James H. Davenport, M.D., Asst. Ch. Radiol. Serv.; Garrison L. Sobel, M.D., Resident, Neurosurg. Sec.; Bronx, N.Y. (8675)

5609. Experiences with Surgery and Strontium 90 in the Treatment of Pterygium.

Martin Bernstein, M.D., Ch. Resident, Ophth. Serv.; Joseph E. Pisetsky, M.D., Act. Asst. Ch. Psychiat. & Neur. Serv.; Bronx, N.Y. (8684)

5610. Enzymatic Lysis of the Zonule of Zinn with Alpha Chymotrypsin as an Aid to Intracapsular Cataract Extraction.

Abraham S. Haft, M.D., Ch. Ophth. Sec.; Edwin Trayner, M.D., Resident, Ophth.; Alvin Zimmerman, M.D., Resident, Ophth.; Bronx, N.Y. (9047)

5611. Studies on Collateral Venous Hemodynamics Following Ligation of the Inferior Vena Cava at Various Levels.

Louis M. Rousselet, M.D., Surg. Cons., VAH, Dir. Surg., St. Vincent's Hosp.; Robert Schobinger, M.D., Sec. Ch. Gen. Surg., VAH; Philip Cooper, M.D., Ch. Surg. Serv.; Armand A. Crescenzi, M.D., Sec. Ch. Gen. Surg.; Bronx, N.Y. (9048)

5612. Neuropathic Joints of Various Obscure Etiologies.

Sidney N. Eichenholtz, M.D., Attend., Surg. Serv.; Bronx, N.Y. (10116)

5613. The Instantaneous Electronic Determination of Operative Blood Loss.

Harry H. LeVeen, M.D., Ch. Surg. Serv.; Brooklyn, N.Y. (2900)

5614. Studies on Revascularization of the Heart by Connecting Coronary Sinus, Veins, or Arteries With Branches of the Aorta.

Joseph T. Roberts, M.D., Ch. Card. Sec.; Buffalo, N.Y. (2963)

5615. Use of Chymotrypsin for Dissolution of Intra-Arterial Thrombi.

Alfred M. Keirle, M.D., Ch. Surg. Serv.; Ronald H. Fegelman, M.D., Surg. Resident; Earl F. Jordan, M.D., Surg. Resident, VAH; William A. Altemeier, M.D., Prof. Surg., Univ. of Cincinnati, Cons., VAH; Cincinnati, Ohio. (10388)

5616. Study of Ammonia Intoxication in Dogs.

Alfred M. Keirle, M.D., Ch. Surg. Serv.; Cincinnati, Ohio. (10404)

5617. Bronchial Stump Closure.

Mark W. Wolcott, M.D., Ch. Surg. Serv.; Burnett Schaff, M.D., Former Ch. Thoracic Surg. Sec.; Oswald H. Coury, M.D., Resident, Gen. Surg.; John H. Medlin, M.D., Resident, Gen. Surg.; Coral Gables, Fla. (3229)

5618. Segmental Liver Revascularization: II. Splenic Artery Implantation Into a Cirrhotic Liver.

Irwin S. Morse, M.D., Attend. Gen. Surg.; Edward T. Gary, M.D., Asst. Ch. Surg. Serv.; Clinton H. Davis, M.D., Attend. Gen. Surg.; Coral Gables, Fla. (3230)

5619. Partial Hepatic Replantation Into a Constructed Enteric Diverticulum With Subtotal Hepatectomy.

Bernard Sigel, M.D., Resident Surg.; Edward B. Mazaleski, M.D., Resident Surg.; Coral Gables, Fla. (8513)

5620. Changes in Serum Electrolytes and Blood Gases in Poor Risk Patients During Operation: A Correlation With Electrocardiographic and Arterial Pressure Changes.

Charles W. Silverblatt, M.D., Senior Resident Int. Med.; Fred Wasserman, M.D., Asst. Dir., Prof. Serv. for Research; George L. Baum, M.D., Asst. Ch. Pum. Dis. Sec.; James J. Traitz, M.D., Senior Resident Int. Med.; Mark W. Wolcott, M.D., Ch. Surg. Serv.; Coral Gables, Fla. (8874)

5621. Renal Transplantations.

Mark W. Wolcott, Ch. Surg. Serv.; Irwin M. Potash, Resident Gen. Surg.; Robert V. Thomson, Ch. Lab. Serv.; Coral Gables, Fla. (9363)

5622. A New Method for Obtaining Eustachian Tube Closure at Tympanomastoidectomy.

L. E. Adin, M.D., Cons. Otolaryng., VAH, Clin. Instr. Orolaryng., Univ. of Texas Southwestern Med. Sch.; Donald A. Corgill, M.D., Ch. ENT Serv., VAH; Dallas, Tex. (3318)

5623. Radical Neck Dissection in the Absence of Palpable Lymph Nodes.

Donald A. Corgill, M.D., Ch. ENT Serv.; Dallas, Tex. (3321)

5624. Conservation of Hearing at Mastoid Surgery.

Donald A. Corgill, M.D., Ch. ENT Serv.; Dallas, Tex. (3323)

5625. Study of the Inner Ear Physiology.

Daniel M. Martinez, M.D., Asst. Ch. ENT Serv.; Dallas, Tex. (3324)

5626. Evaluation of Medic Spray in the Operating Room Suite.

Richard J. Ireton, M.D., Ch. Surg. Serv.; Dayton, Ohio; (12049)

5627. The Use of Lyophilizing Common Bile Duct Homografts in Experimental Reconstruction of the Common Duct.

B. Eiseman, M.D., Ch. Surg. Serv.; W. G. Rainer, M.D., Surg. Resident, VAH; W. Coppinger, M.D., Practicing Surg.; Denver, Colo. (3498)

5628. Ligation of Inferior Vera Cava.

Louis T. Palumbo, M.D., Ch. Surg. Serv.; Raymond Vespa, M.D., Asst. Sect. Ch. Gen. Surg.; Wendell S. Sharpe, M.D.; Des Moines, Iowa. (3534)

5629. The Study of Non-Suture of Certain Muscle Splitting Abdominal Wounds.

Louis T. Palumbo, M.D., Ch. Surg. Serv.; Alfred N. Smith, M.D., Asst. Ch. Surg. Serv.; Donald J. Lulu, M.D., Asst. Sect. Ch. Gen. Surg.; Des Moines, Iowa. (3537)

5630. Esophagogastric Competence.

R. W. Postlethwait, M.D., Ch. Surg. Serv.; Marcus L. Dillon, M.D., Asst. Ch. Surg. Serv.; L. C. Smith, M.D., Research Assoc. Surg., Duke Med. Center; Durham, N.C. (3905)

5631. Vitamin C in Surgical Patients.

R. W. Postlethwait, M.D., Ch. Surg. Serv.; Ronald W. Chen, Ph. D., Biochem.; Durham, N.C. (3906)

5632. Tendon Healing, A Chemical Study.

R. W. Postlethwait, M.D., Ch. Surg. Serv.; Marcus L. Dillon, M.D., Asst. Ch. Surg. Serv.; Durham, N.C. (3910)

5633. Tendon Healing.

Glen P. Musselman, M.D., Asst. Resid. Orth. Surg. VAH; Leonard Goldner, M.D., Prof. Orth. Surg., Duke Med. Center; R. W. Postlethwait, M.D., Ch. Surg. Serv., VAH; Durham, N.C. (3913)

5634. Localization of C–14 Ascorbic Acid in Healing Wound Tissues.

R. W. Postlethwait, M.D., Ch. Surg. Serv.; Ronald W. Chen, Ph. D., Biochem.; Henry Kamin, Ph. D., Biochem. RI Serv.; Durham, N.C. (3965)

5635. Histologic Aspects of Wound Healing as Determined by Special Stains.

R. W. Postlethwait, M.D., Ch. Surg. Serv.; Albert G. Smith, M.D., Asst. Ch. Lab. Serv.; Durham, N.C. (9551)

5636. Enzymology of the Healing Wound.

Ronald W. Chen, Ph. D., Biochem.; R. W. Postlethwait, M.D., Ch. Surg. Serv.; Durham, N.C. (9552)

5637. A Method of Histologically Grading Healing Wounds.

R. W. Postlethwait, M.D., Ch. Surg. Serv., VAH; Alonzo H. Myers, M.D., Sr. Med. Stud., Duke Med. Cent.; Albert G. Smith, M.D., Asst. Ch. Lab. Serv., VAH; Durham, N.C. (9553)

5638. Attempts to Restore Function in Major Veins by Use of *In Vivo* Accompanying Artery By-pass.

James T. Wolstenholme, M.D., Asst. Ch. Surg. Serv.; Albert H. Levy, M.D., Ch. Surg. Serv.; East Orange, N.J. (4014)

5639. Partial Orchiectomy: Conservation of Testicular Tissue.

Maxwell Malament, M.D., Ch. Urol. Sec. Surg. Serv.; Adolfo Dacosta, M.D., Resident, Surg. Serv.; East Orange, N.J. (4018)

5640. A Clinical Test of New Drug—Phospholine Iodide in the Management of Glaucoma.

Alina Domanskis, M.D., Resident, Ophth. Sec.; Hines, Ill. (10375)

5641. Portable Immobilizer.

Harry L. Barton, M.D., Ch. Radiol. Serv.; Houston, Tex. (4357)

5642. Investigations of Post-operative Saline Therapy.

James D. McMurrey, M.D., Asst. Prof. Surg., Baylor Univ.; Samuel W. Law, M.D., Resident, VAH; Byron Dooley, M.D., Resident; Houston, Tex. (4405)

5643. Marlex Mesh in the Repair of Incisional Hernias.

Francis C. Usher, M.D., Attend. VAH, Clin. Assoc. Prof. Surg., Baylor Univ.; Lee L. D. Tuttle, Jr., M.D., Resident, VAH; Houston, Tex. (4406)

5644. Gastric Ulcer.

James W. Giacobine, M.D., Resident Thoracic Surg.; George L. Jordan, Jr., M.D., Ch. Surg. Sect.; Houston, Tex. (4407)

5645. A Study of the Function of Tissue Grown in Tissue Culture.

George L. Jordan, Jr., M.D., Ch. Surg. Serv.; Hugh D. Bennett, M.D., Ch. Med. Serv.; Houston, Tex. (9128)

5646. Tissue Reaction to Marlex-50.

Francis C. Usher, M.D., Attend. VAH, Clin. Assoc. Prof. Surg., Baylor Univ.; Byron Dooley, M.D., Resident, VAH; Houston, Tex. (10693)

5647. Experimental Study of Techniques in Peripheral Vascular Surgery.

R. L. Bradley, M.D., Ch. Surg. Serv.; E. H. Short, M.D., Asst. Ch. Surg. Serv.; Huntington, W. Va. (4806)

5648. Amputations in the Elderly Patient.

R. L. Bradley, M.D., Ch. Surg. Serv.; G. H. Zablocki, M.D., Ch. PMR Serv.; Huntington, W. Va. (4811)

5649. Retention Suture: Fixed Figure of Eight Type.

Frederic W. Taylor, M.D., Attend. Surg., VAH, Prof. Surg., Indiana; J. G. Jontz, M.D., Resident Surg.; Indianapolis, Ind. (9130)

5650. Bronchial Stump Healing.

George A. Higgins, M.D., Ch. Surg. Serv.; Theodore Batchelder, M.D., Resident Med.; Kansas City, Mo. (4965)

5651. Evaluation of Two Methods of Skin Antisepsis for Surgery.

Ernest S. Roberts, M.D., Ch. Surg. Serv.; Mortimer Russell, B.A., Bact.; Kecoughtan, Va. (10974)

5652. Psychological Aspects of Mitral Commissurotomy Surgery.

C. T. Seymour, Ph. D., Clin. Psychol.; Eugene Temkin, M.D., Cons.; Herbert J. Movius, M.D., Cons.; Long Beach, Calif. (5143)

5653. The Surgical Treatment of Pilonidal Sinus.

Joseph E. Hamilton, M.D., Ch. Surg. Serv.; Giles Stephens, M.D., Asst. Ch. Resident, Gen. Surg.; Clarence E. Claugus, M.D., Asst. Ch. Surg. Serv.; Louisville, Ky. (5449)

5654. Use of Teflon Woven Mesh in Repair of Recurrent or Large Hernial Defects of Abdominal Wall Where Local Tissues Are Poor.

Louis G. Ludington, M.D., Sr. Resident, Gen. Surg.; Wiley F. Barker, M.D., Attend. Surg., VAC, Assoc. Prof. Surg., Univ. of California at Los Angeles Med. Center; Los Angeles, Calif. (5763)

5655. The Development of Sentence Completion and Insight Test Techniques in a Study of Psychological Reactions Following Surgery.

Max Apfeldorf, Ph. D., Psychol.; Isabella Harrison, M.D., Ch. Surg. Serv.; Martinsburg, W. Va. (5893)

5656. Hypothermia Induced by Intraperitoneal Ice.

John J. McCaughan, M.D., Asst. Ch. Surg. Serv.; Memphis, Tenn. (10480)

5657. The Effect of Tension on the Tensile Strength of Aponeurotic Wounds in Rabbits.

Stephen S. Thorngate, M.D., Resident, Surg. Serv.; Donald J. Ferguson, M.D., Ph. D., Ch. Surg. Serv.; Minneapolis, Minn. (6218)

5658. The Effect of Para-Aminobenzoic Acid and Sodium Salicylate on Transplantation Survival Time.

Robert W. Geist, M.D., Resid., Urol. Sect.; Julian S. Ansell, M.D., Ch. Urol Sect.; Minneapolis, Minn. (6233)

5659. The Combined Use of Noradrenalin and Corticosteroids in Surgical Shock.

Philip W. Fenney, M.D., Ch. Surg. Serv.; Newington, Conn. (6342)

5660. To Determine the Possible Efficacy of Plasmin in the Treatment of Mesenteric Thrombosis.

John S. Wilson, M.D., Resident, Surg. Serv.; Newington, Conn. (8500)

5661. The Short- and Long-Term Follow-up of Aged Patients Who Undergo Major Surgery.

William F. MacFee, M.D., Ch. Surg. Serv.; New York, N.Y. (11028)

5662. Improvement in Design of Mouth Gag and Laryngoscope.

Rudolph E. Swenson, M.D., Ch. ENT Sect.; Oakland, Calif. (6651)

5663. Operative and Postoperative Body Temperature.

William P. Kleitsch, M.D., Ch. Surg. Serv.; Omaha, Nebr. (6734)

5664. A Study of the Etiology, Pathology and Pathological Genesis of Pilonidal Disease.

W. P. Kleitsch, M.D., Ch. Surg. Serv.; Wallace J. Vnuk, M.D., Intermed. Resident Surg. Serv.; John S. Latta, Ph. D., Cons. Surg. Serv.; Omaha, Nebr. (6738)

5665. Mortality in Gastric Surgery.

William P. Kleitsch, M.D., Ch. Surg. Serv.; Omaha, Nebr. (6739)

5666. The Desensitization of Guinea Pigs to Heterologous Skin Grafts With Alum Precipitated Skin Extracts.

Rudolph W. Roesel, M.D., Surg. Resident, St. Joseph's Hosp.; Benedict R. Walske, M.D., Dean Surg. Serv., Creighton Univ., Cons., VAH.; Anthony J. Barak, Ph. D., Biochem., VAH; Reginald A. MacHaffie, M.D., Phys. Med. Serv.; Omaha, Nebr. (6741)

5667. A Survey of the Results of Surgical Procedures Performed Since the Activation of the Hospital.

Oscar Serlin, M.D., Ch. Surg. Serv.; Philadelphia, Pa. (9952)

5668. A Non-Slip Tongue Depressor.

Hubert J. Adler, M.D., Ch. ENT Serv.; Phoenix, Ariz. (6984)

5669. Superior Vena Caval Replacement.

Justin A. Aalpoel, M.D., Ch. Thoracic Surg.; Portland, Oreg. (9221)

5670. Comparison of Human Dura and Teflon Mesh in the Repair of Ventral Hernial Defects in the Rabbit.

James H. Foster, M.D., Surg. Resident; Portland, Oreg. (10639)

5671. Effects of Cross Circulation and Embryonal Union on the Parabiotic Reaction in Mammals.

Charles J. Galbraith, M.D., Dir. St. Louis Univ. Sec. Surg.; V. L. Willman, M.D., Phys., VAH; St. Louis, Mo. (7688)

5672. Effect of Heat on the Enzymes of Skin Homogenates.

Falls B. Hershey, M.D., Dir. Washington Univ. Surg Serv.; Charles Lewis, Jr., Biochem., VAH; Lorine Mullins, Biol.; Josephine Murphy, Biochem.; St. Louis, Mo. (7696)

5673. Time Motion Studies.

Falls B. Hershey, M.D., Dir. Washington Univ. Surg. Serv.; Paul Nyland, Ph. D., Prof. Economics, Washington Univ.; St. Louis, Mo. (7704)

5674. Electron Sterilization of Cartilage for Tissue Bank.

Robert C. Donaldson, M.D., Asst. Ch. Surg. Serv., VAH; Falls B. Hershey, M.D., Dir. Washington Surg. Serv.; St. Louis, Mo. (9732)

5675. Studies on Operative and Postoperative Cataracts, Visual Results, Operative Techniques, etc.

David O. Harrington, M.D., Attend. VAH, Clin. Prof. Ophth., Univ. of California Sch. Med.; San Francisco, Calif. (9784)

5676. Mechanics of Delivery of the Lens in Cataract Operations as Demonstrated by Photographic Techniques.

David O. Harrington, M.D., Attend. VAH, Clin. Prof. Ophth., Univ of California Sch. of Med.; San Francisco, Calif. (9785)

5677. Studies of Hepatic Conjugating Mechanisms.

Edwin Englert, Jr., M.D., Asst. Ch. Med. Serv., Salt Lake City, Utah. (10522)

5678. The Study of Hepatic Excretory Mechanisms With Anionic Phthalein Dyes.

Edwin Englert, Jr., M.D., Asst. Ch. Med. Serv.; Salt Lake City, Utah. (10523)

5679. The Effect of Temporary Vascular Occlusion in the Canine Lung.

A. Patino, M.D., Senior Resident Surg.; William Knox Fitzpatrick, M.D., Ch. Surg. Serv.; Salt Lake City, Utah. (10528)

5680. The End Results of Surgical Treatment for Low Back Pain With Sciatic Nerve Radiation.

Albert S. Crawford, M.D.; Togus, Maine. (7862)

5681. Experimental Study of the Effects of Hypothermia Particularly in Relationship to Kidney Function.

Woodrow W. Lindenmuth, M.D., Ch. Surg. Serv.; George Gowen, M.D., Phys., Surg. Serv.; West Haven, Conn. (8094)

5682. Evaluation of Cooled Air Introduced Through the Lungs as a Method of Total Body Cooling.

Woodrow W. Lindenmuth, M.D., Ch. Surg. Serv.; George F. Gowen, Phys. Surg. Serv.; West Haven, Conn. (10307)

5683. Follow-Up Study of Recurrent Inguinal Hernia.

Robert M. Goldwyn, M.D., Resident, Surg. Serv.; Richard Warren, M.D., Ch. Surg. Serv.; West Roxbury, Mass. (11069)

5684. Abdominal Wound Healing. A Study of the Etiologic Aspects and Mechanisms of Dehiscence and Herniation.

Paul Clapp, M.D., Resident, Gen. Surg.; Walter B. Crandell, M.D., Ch. Surg.; White River Junction, Vt. (8802)

5685. Hernia Repairs.

Peter Fleming, M.S., Resident Surg.; Walter B. Crandell, M.D., Ch. Surg.; White River Junction, Vt. (8803)

5686. An Evaluation of Betadine[R] as an Agent for Preparation of the Skin of Surgeon and Patient.

Miles B. Smith, M.D., Ch. Surg. Serv.; James R. Keuer, M.D., Resident Surg.; A. Stephen Close, M.D., Clin. Invest.; Marie L. Koch, Ph. D., Ch. Microbiol. Sec. Lab. Serv.; Wood, Wis. (9735)

(c) X-ray

5687. Study of Biologically False Positive Serological Reactions.

Mary O. Dimmock, Serol. Lab. Serv.; Augusta, Ga. (2311)

5688. A Study of Arteriosclerosis as Demonstrated by Available X-ray Studies.

Chester Solez, M.D., Phys., Med. Serv.; Bath, N.Y. (2407)

5689. Mechanism of Ureteral Peristalsis and the Causes of Impairment of Ureteral Motility.

Egon Wissing, M.D., Ch. Radiol.; Marjorie LeMay, M.D., Asst. Ch. Radiol.; Boston, Mass. (10272).

5690. Necropsy Study.

Marjorie LeMay, M.D., Ch. Diag. Sect., Radiol. Serv.; Boston, Mass. (10273)

5691. Development of a Photographic Attachment for Gastroscope.

David Lubin, B.A., Ch. Med. Illus. Serv., VAH; Charles A. Flood, M.D., Attend. Phys., VAH, Asst. Prof. Clin. Med., Columbia P & S; Julius Wolf, M.D., Ch. Med. Serv., VAH; Edward B. Grossman, M.D., Asst. Ch. Med. Serv.; Bronx, N.Y. (4537)

5692. An Investigation to Develop Macropathologic Techniques of Mounting Gross Anatomic Specimens in Natural Color.

Benjamin S. Gordon, M.D., Ch. Lab. Serv.; Bronx, N.Y. (4606)

5693. Bowel Dilatation.

Joseph Stein, M.D., Ch. Radiol. Serv.; O. Manfredi, M.D., Resident, Radiol. Serv.; Bronx, N.Y. (4650)

5694. Mold Technology in Radiation Therapy of Deep-Seated Cancer.

Bernard Roswit, M.D., Ch. Radiotherapy Serv.; Sol M. Unger, M.D., Asst. Ch. Radiotherapy Serv.; Stanley J. Malsky, Ch. Physicist Radiotherapy Serv.; Cyprian B. Reid, Physicist, Radiotherapy Serv.; Bronx, N.Y. (4664)

5695. Radium Treatment Planning.

Stanley J. Malaky, Ch. Physicist Radiotherapy Serv.; Bernard Roswit, M.D., Ch. Radiotherapy Serv.; Cyprian B. Reid, Physicist Radiotherapy Serv.; Sol. M. Unger, M.D., Asst. Ch. Radiotherapy Serv.; Charles Spreckels, Attend. Radiotherapy Serv.; Bronx, N.Y. (4671)

5696. Use of Hydeltrasol in Intravenous Urography.

Herman Wechsler, M.D., Attend., Urol., VAH, Clin. Asst. Prof. Urol., Albert Einstein Med. Sch.; Raymond Almadovar, M.D., Resident, Urol., VAH; Bronx, N.Y. (9072)

53945—60——40

5697. Horizontal Body Section Radiography Diagnostic and Therapeutic Applications.

Bernard Roswit, M.D., Ch. Radiotherapy Serv.; Sol M. Unger, M.D., Asst. Ch. Radiotherapy Serv.; Stanley J. Malsky, Ch. Phys. Radiotherapy Serv.; Cyprian B. Reid, Sr. Phys. Radiotherapy Serv.; Bronx, N.Y. (10117)

5698. X-Ray Evaluation of the Distal Tibio-Fibula Syndesmosis.

Sidney N. Eichenholtz, M.D., Attend. Orth.; Joseph Stein, M.D., Ch. Radiol. Serv.; Bronx, N.Y. (10118)

5699. The Etiology and Clinical Significance of Infrapulmonary Fluid.

Sol M. Unger, M.D., Asst. Ch. Radiotherapy Serv; Bernard Roswit, M.D., Ch. Radiotherapy Serv.; Joseph Stein, M.D., Ch. Radiol. Serv.; Bronx, N.Y. (10119)

5700. A Study to Determine the Effect of Irradiation on Pulmonary Vascular Resistance and O_2 and CO_2 Alveolar Wall Permeability in Dogs.

William T. Moss, M.D., Ch. Therapeutic Radiol. Serv.; Stanford K. Sweany, M.D., Ch. Chest Disease Sec.; Francis J. Haddy, M.D., Ph. D., Clin. Invest.; Chicago (Res.), Ill. (3595)

5701. A Mathematical Study of Empirical Depth Dose Relationships.

Robert K. Clark, Ph. D., Physicist, Therpeutic Radiol. Serv.; William T. Powers, B.S., Physicist, Therapeutic Radiol. Serv.; Chicago (Res.), Ill. (3596)

5702. An Electronic X-Ray Film Viewer.

William T. Powers, B.S., Physicist; Robert K. Clark, Ph.D., Physicist, Therapeutic Radiol. Serv.; Chicago (Res.) Ill. (3597)

5703. Evaluation of the Rotating Co^{60} Teletherapy Unit.

William T. Moss, M.D., Ch. Therap. Radiol. Serv.; Robert K. Clark, Ph. D., Physicist, Therap. Radiol. Serv.; William T. Powers, B.S., Physicist, Therap. Radiol. Serv.; Chicago (Res.), Ill. (3600)

5704. Relative Value of Super and Medium Voltage Therapy of Patients.

William T. Moss, M.D., Ch. Therapeutic Radiol. Serv.; Robert K. Clark, Ph. D., Physicist, Therapeutic Radiol. Serv.; Chicago (Res.), Ill. (3601)

5705. Effect of Eck and Reverse Eck Fistula on Carbohydrate Metabolism.

Thomas E. Starzl, M.D., Resident, Surg.; Frederick W. Preston, M.D., Ch. Surg. Serv., VAH; Joseph K. Skom, M.D., Attend. Med., VAH, Instr. Med., Northwestern Univ.; Ralph E. Dolkart, M.D., Attend. Med., VAH, Assoc. Prof. Med., Northwestern Univ.; Chicago (Res.), Ill. (9102)

5706. Effects of 5-Fluorouracil on Wound Healing.

Charles J. Staley, M.D., Asst. Ch. Surg. Serv.; Otto H. Trippel, M.D., Ch. Gen. & PV Surg.; Frederick W. Preston, M.D., Ch. Surg. Serv.; Chicago (Res.), Ill. (9103)

5707. Determination of Liver, Spleen and Kidney Size by Radiography.

Albert M. McCallen, M.D., Ch. Radiol. Serv.; Coral Gables, Fla. (3210)

5708. Study of the Efficiency of Intravenous Cholangiography and Cholecystography.

W. S. Keyting, M.D., Resident Radiol.; A. L. Daywitt, M.D., Ch. Radiol.; Denver, Colo. (3471)

5709. Nephrography and Nephrotomography, Combined with Routine Intravenous Pyelography.

W. S. Keyting, M.D., Asst. Ch. Radiol.; J. C. McMillan, M.D., Resident Radiol., Denver, Colo. (9474)

5710. Study Leading to Scientific Paper on Iliac Arteriography.

Paul J. Trier, M.D., Ch. Radiol; S. W. Shapiro, M.D., Asst. Sect. Ch. Gen. Surg.; Des Moines, Iowa. (3554)

5711. Myelography.

Paul J. Trier, M.D., Ch. Radiol; S. W. Shapiro, M.D., Asst. Sec. Ch. Gen. Surg.; Des Moines, Iowa. (3555)

5712. The Spectrophotometric Determination of Biological Fluid Oxygen Tension.

Herbert A. Saltzman, M.D., Ch. Pulm. Serv.; Durham, N.C. (9554)

5713. Lymph Node Aspiration and Imprint in Diagnosis.

Sidney Trubowitz, M.D., Asst. Ch. Med. Serv.; East Orange, N.J. (3992)

5714. Selective Arteriography of Abdominal Arteries.

Constantin Cope, M.D., Resident TB Serv.; East Orange, N.J. (4002)

5715. Intragastric Pressures During Maneuvers to Elicit Diaphragmatic Insufficiencies and Herniations.

Joseph R. Nahon, M.D., Ch. Radiol. Serv.; East Orange, N.J. (4025)

5716. Comparison of Depth Doses in the Oral Cavity of Actual Patients With Those Obtained in an Infinite Phantom.

Joseph R. Nahon, M.D., Ch. Radiol. Serv.; East Orange, N.J. (4028)

5717. X-Ray Evaluation of Stomach Herniation Through the Esophageal Hiatus in the Cadaver.

Bedford K. Duff, M.D., Ch. Radiol. Serv.; Fresno, Calif. (4102)

5718. X-Ray Visualization of the Pulmonary Segments in the Cadaver.

Bedford K. Duff, M.D., Ch. Radiol. Serv.; Fresno, Calif. (4103)

5719. Chronic Chromium Poisoning.

M. S. McDonald, M.D., Asst. Ch. Med. Serv.; Fresno, Calif. (8408)

5720. The Study of Bone Density Using a Human Bone Mineral Wedge.

Israel E. Kirsh, M.D., Phys., Radiol. Serv.; James Miree, Jr., M.D., Phys., Radiol. Serv.; Ervin Kaplan, M.D., Act. Assoc. Dir., RI Serv.; Theodore Fields, M.S., Physicist, RI Serv.; Irwin M. Siegel, M.D., Resident, Surg. Serv.; Hines, Ill. (4215)

5721. Portable Immobilizer.

Harry L. Barton, M.D., Ch. Radiol. Serv.; Houston, Tex. (4357)

5722. Statistical Study of Radiographic Findings in the Edentulous Maxilla and Mandible.

Heyl G. Tebo, D.D.S., Asst. Ch. Dent. Serv.; Houston, Tex. (4446)

5723. Densitometric Evaluation of Phantom Radiographs in the Whole Range of Current Diagnostic Procedures.

Julius G. Baron, M.D., Ch. Radiol. Serv.; Iowa City, Iowa. (4881)

5724. Development of Micro-Laminograph.

Julius G. Baron, M.D., Ch. Radiol. Serv.; Iowa City, Iowa. (9590)

5725. Danger Signal in Fluoroscopy.

Julius G. Baron, M.D., Ch. Radiol. Serv. VAH; Harold W. Shipton, Cons. VAH; Electronics Research Engineer, State Univ. of Iowa; Iowa City, Iowa. (9591)

5726. Improvement of Planigraphic Technique by Isolation of Sectional Detail From Volume Structures.

Hans Heilbronn, M.D., Ch. Radiol. Serv.; Kecoughtan, Va. (4993)

5727. Design of Collimating Lead-Shield Diaphragm with Optical Focusing Device for Simplification of Focusing and Protection From Stray Radiation.

Hans Heilbronn, M.D., Ch. Radiol. Serv.; Kecoughtan, Va. (4994)

5728. Cadmium Sulfide Crystals in Radiation Monitoring.

Hans Heilbronn, M.D., Ch. Radiol. Serv.; Kecoughtan, Va. (10975)

5729. Cadmium Sulfide Crystals in Gamma Ray Dosimetry.

Hans Heilbronn, M.D., Ch. Radiol. Serv.; Kecoughtan, Va. (10976)

5730. Effect of Combined Chemotherapy and X-Irradiation on Transplantable Metastasizing Tumors of Mice.

Alan B. Skorneck, M.D., Ch. Diag. Sec. Radiol. Serv.; Bernard H. Feder, M.D., Act. Ch. Radiol. Serv.; Henry T. Uhrig, M.D., Staff Radiol.; M. Lawrence Weinstein, M.D., Staff Radiol.; Long Beach, Calif. (8412)

5731. Multiple Chemotherapy and Local X-Irradiation on Transplantable Human Tumors in Rats and Hamsters.

Alan D. Skorneck, M.D., Ch. Diag. Sec. Radiol. Serv.; Bernard H. Feder, M.D., Act. Ch. Radiol. Serv.; Henry T. Uhrig, M.D., Staff Radiol.; M. Lawrence Weinstein, M.D., Staff Radiol.; Long Beach, Calif. (8413)

5732. Nucleic Acid Content of Thyroid Tissue.

Albert D. Williams, Ph. D., Biochem. RI Serv.; Long Beach, Calif. (10787)

5733. Electron Micrographic Study of Chromosomes.

Joseph R. Goodman, Ph. D., Biochem., VAH; Jutara Tawara, Junior Research Microbiol., Univ. Calif. at Los Angeles Med. School; Long Beach, Calif. (10788)

5734. Development of New Radiologic Instrument: II. A Lung Plethysmograph.

Joseph Jorgens, M.D., Ph. D., Ch. RI Serv.; Minneapolis, Minn. (6160)

5735. Clinical Evaluation of Chemicals Used in Radiographic Procedures.

Henry W. Walters, M.D., Career Resident, Radiol. Serv.; Minneapolis, Minn. (6186)

5736. Determination of Roentgen Exposure to the Gonads in Treatment of Various Benign Conditions by X-Ray Therapy.

Gustave Kaplan, M.D., Asst. Ch. Radiol. Serv.; William H. Ellett, B.S., Attend. Radiol. Physicist; New York, N.Y. (6496)

5737. Routine Skull X-ray Project of Neuropsychiatric Admissions.

Ernest Karft, M.D., Ch. Radiol. Serv.; Northport, N.Y. (8716)

5738. An Investigation of the Incidence of Endostosis Cranialis in Three Selected Portions of the Male Population of Perry Point VA Hospital.

R. Burke Suitt, M.D., Ch. Psychiat. Cons. Serv.; E. Goldmeier, M.D., Ch. Radiol. Serv.; Asa W. DeLoach, M.D., Psychiat. Serv.; Benjamin S. Wood, M.D., Psychiat. Serv.; Perry Point, Md. (6958)

5739. A Comparison of Various Diagnostic Urographic Opaque Media Including Urokon, Hypaque and Renografin.

George T. Wohl, M.D., Ch. Radiol. Serv.; Philadelphia, Pa. (7100)

5740. Cineradiography.

George T. Wohl, M.D., Ch. Radiol. Serv.; Henry P. Close, M.D., Ch. Med. Serv.; Bernard H. Pastor, M.D., Ch. Cardiovasc. Sect.; Theodore Rodman, M.D., Phys. Cardiopulm. Func. Lab.; Philadelphia, Pa. (7120)

5741. Investigation of the Use of a Water Soluble Opaque Iodine Substance in X-Ray Diagnosis of the Gastrointestinal Tract.

George T. Wohl, M.D., Ch. RI Serv.; Ralph M. Myerson, M.D., Asst. Ch. Med. Serv.; Oscar Serlin, M.D., Ch. Surg. Serv.; Philadelphia, Pa. (8939)

5742. Splenoportography.

Samuel Karr, M.D., Resident, Med. Serv.; Philadelphia, Pa. (8941)

5743. Orthopedic Radiologic Research Project.

George T. Wohl, M.D., Ch. Radiol. Serv. and Ch. RI Serv.; James S. Deakins, M.D., Ch. Orth. Sect.; Philadelphia, Pa. (9953)

5744. Odelca Camera Evaluation.

George T. Wohl, M.D., Ch. Radiol. Serv. and Ch. RI Serv.; Philadelphia, Pa. (9954)

5745. Serum Enzymes as Biological Indications in Radiation Therapy.

Merall Roth, M.D., Asst. Ch. Radiol. Serv.; San Francisco, Calif. (9012)

5746. Development of an Inexpensive and Efficient Body-Section X-ray Apparatus.

J. H. Arvan, Ch. Tech. Radiol. Serv.; Sepulveda, Calif. (7523)

5747. Visualization of Renal Dye Excretion Patterns During Arteriography and Intravenous Urography.

Francis J. O'Connor, M.D., Radiol.; Togus, Me. (7852)

5748. Use of Cinefluorography (16 MM) and 35 MM Spot Films in the Routine Study of the Upper Gastrointestinal Tract and Colon.

Francis J. O'Connor, M.D., Radiol.; Togus, Me. (10536)

5749. Repeated Radiation and Marrow Transfusion in Mice.

J. W. Hollingsworth, M.D., Ch. Med. Serv.; Harold O. Conn, M.D., Clin. Invest.; West Haven, Conn. (8056)

5750. Factors Influencing Duration of Immunity of Mice Irradiated and Treated with Isologous Bone Marrow and Spleen.

J. W. Hollingsworth, M.D., Ch. Med. Serv.; Harold O. Conn, M.D., Clin. Invest.; West Haven, Conn. (8061)

5751. Determination of the Presence of Lung Metastases by Planography Before the Tumor Has Grown Large Enough To Be Noted by Conventional Film Examination Due to the Position or Size of the Tumor.

Leonard Ginsburg, M.D., Form. Asst. Ch. Radiol.; West Haven, Conn. (8084)

5752. Histopathology of Repeated Radiation and Marrow Transfusion in Mice.

Raymond Yesner, M.D., Ch. Lab. Serv.; J. W. Hollingsworth, M.D., Ch. Med. Serv.; West Haven, Conn. (8098)

5753. A Device To Improve the Quality of Roentgenograms.

B. Bushueff, M.D., Ch. Radiol.; West Roxbury, Mass. (8146)

5754. Cinefluorographic Examination of the Larynx With Contrast Media.

James E. Bell, M.D., Resident Radiol. Serv.; George J. Owens, M.D., Resident Radiol. Serv.; Edward Kronschnabel, M.D., Resident Otorhinolaryngol., ENT Clin.; Robert V. McAllister, M.D., Ch. Radiol. Serv.; Roger H. Lehman, M.D., Ch. EENT Sect. Surg. Serv.; Wood, Wis. (9768)

(d) Toxicity and poisoning

5755. Liver Perfusion To Determine Efficiency of a Donor Liver in Removing Ammonia From an Ammonia Intoxicated Dog.

Edward J. Margulies, M.D., Resident, Surg. Serv., VAH; C. Stuart Welch, M.D., Cons., VAH, Prof. Surg., Albany Med. Cen.; John J. Cincotti, M.D., Ch. Gen. Surg. Sect., VAH; Albany, N.Y. (9279)

5756. Determination of Urine, Lead, Porphobilinogin Levels on Normals and Patients Receiving Calcium Versenate.

James C. Crutcher, M.D., Ch. Med. Serv.; Mary Z. Schumpert, Biochem. Med. Research Lab.; Atlanta, Ga. (9599)

5757. Are Endotoxins Elaborated by Cryptococcus Neoformans?

Hans H. Gadebuch, M.S., Research Biochem.; Ann Arbor, Mich. (2152)

5758. Clinical Evaluation of Zactirin.

Charles H. Fortson, M.D., Resident Surg.; Dayton, Ohio. (12048)

5759. The Effect of Isoniazid on the Excretion of 5-hydroxyindolacetic Acid.

J. B. Thompson, M.D., Med. Resident; Denver, Colo. (9475)

5760. Evaluation of Sterile Barium Sulfate in the Peritoneal Cavity With and Without Perforation of the Lower Gastrointestinal Tract.

Robert F. Bettasso, M.D., Resident, Surg. Serv.; William J. Gillesby, Asst. Ch. Surg. Serv.; Hines, Ill. (4261)

5761. Treatment of Hyperkalemia with Extracorporeal Hemodialysis.

Richard L. Lawton, M.D., Surg.; Edward D. Lardner, M.D., Staff Phys. Surg. Serv.; Iowa City, Iowa. (9592)

5762. Maintenance of Life of Dogs Below 0° C.

Frank Gollan, M.D., Asst. Dir. Prof. Serv. for Research; Nashville, Tenn. (5347)

5763. Protective Effect of Chemical Substances on Animals Given a Lethal Dose of Radioactive Phosphorus.

Howard B. Hunt, M.D., Chm. Dept. Radiol., Univ. of Nebraska Coll. of Med.; Arthur L. Dunn, Ph. D., Asst. Ch. Scien. RI Serv., VAH; Omaha, Nebr. (6786)

5764. Genetic Factors Involved in the Conversion of *Corynebacterium Diphtheriae* From Avirulent to Toxigenic by Bacteriophage.

Neal Groman, Ph. D., Asst. Prof. Microbiology, Univ. of Washington; Frances Condie, M.S., Bact.; Seattle, Wash. (7588)

(e) Other

5765. Attempt to Enhance Naturally Occurring Antimicrobial Globulins in Normal Serum.

Benjamin Blattberg, M.A., Ch. Biol. Sect., Gen. Med. Research Lab.; Albany, N.Y. (2004)

5766. Physiological Function of Carnosine and Anserine in Animal Tissues.

Richard A. Peabody, Ph. D., Ch. Chem. Sect., Gen. Med. Research Lab.; Albany, N.Y. (2011)

5767. Determination of Protein Bound Calcium in Serum.

R. D. Strickland, Ph. D., Research Biochem.; Albuquerque, N.M. (2053)

5768. Induced Ascospore Formation in *Cryptococcus Neoformans*.

Hans H. Gadebusch, M.S., Research Biochem.; Ann Arbor, Mich. (2151)

5769. Symbolic Aspects of Occupational Therapy Activities.

Helen Barrows, B.S., Ch. Occup. Therapy; Efithia Sorolis, B.S., Ch. Occup. Therapy; Philip A. Smith, Ph. D., Research Psychol., VAH; Kitty Kemner, Student, Eastern Mich. Univ.; James Whitney, B.A., Psychol. Tr., VAH; Ann Arbor, Mich. (2186)

5770. The Effect of 2-Dimethylaminoethanol (DMAE) on Brightness Discrimination in the Albino Rat.

John Liebeskind, B.A., Psychol. Tr.; Ann Arbor, Mich. (2188)

5771. The Isolation and *In Vitro* Cultivation of Tissue Mast Cells.

Peter P. Barlow, M.D.; Henry K. Schoch, M.D., Ch. Med. Serv.; Ann Arbor, Mich. (8588)

5772. Evaluation of C-Reactive Protein.

F. G. Stephens, M.D., Ch. Lab. Serv.; Frances Tannehill, Tech. Lab. Serv.; Augusta, Ga. (2312)

5773. Amboceptor Study.

Mary O. Dimmock, Serol. Lab. Serv.; Augusta, Ga. (2313)

5774. Prediction of Adjustment after Return to the Community.

Norman J. Slamecka, Ph. D., Clin. Psychol.; Solomon Shapiro, Ph. D., Ch. Psychol. Serv.; Claire M. Vernier, Ph. D., Ch. Psychol. Research Unit; Baltimore, Md. (2347)

5775. Effect of Vitamin B_{12} on Liver Diphosphopyridine Nucleotide.

Carol C. Chang, Ph. D., Research Assoc., Johns Hopkins Sch. of Hygiene & Pub. Health; Jeng M. Hsu, Ph. D., Research Assoc., Johns Hopkins Sch. of Hygiene & Pub. Health; Robert L. Davis, Sc. D., Biochem, VAH; Bacon F. Chow, Ph. D., Assoc. Prof., Johns Hopkins Sch. of Hygiene & Pub. Health; Baltimore, Md. (2365)

5776. Identification and Evaluation of Rehabilitation Potentials in Older People With Especial Reference to Members of a Domiciliary.

Harold J. Palmer, Ph. D., Ch. Vocat. Counsel. Serv.; Bath, N.Y. (2412)

5777. The Manifest Psychological Needs of Entering Domiciliary Members and Their Modification as a Function of Domiciliation.

Don P. Haefner, Ph. D., Ch. Soc. Psychol.; Stephen H. Davol. M.P.S., Psychol. Tr.; Florence M. Cawthorne, A.B., Psychol. Tr.; Bath, N.Y. (2417)

5778. A Study Investigating Content and Organization of Meaning Given by Domiciliary Members to a Variety of Concepts.

Stephen H. Davol, Ph. D., Ch. Soc. Psychol.; Gunars Reimanis, Psychol. Tr.; Bath, N.Y. (2421)

5779. Some Factors Affecting Social Dysfunction in the Domiciliary.

Stephen H. Davol, Ph. D., Ch. Soc. Psychol.; Gunars Reimanis, Psychol. Tr.; Bath, N.Y. (2422)

5780. A Study of the Process of Attention in the Aging.

Stephen H. Davol, Ph. D., Ch. Soc. Psychol.; Bath, N.Y. (8635)

5781. Adjective Check List To Assess Feelings or Moods of Domiciliary Members.

Gunars Reimanis, M.A., Psychol. Tr.; Bath, N.Y. (8641)

5782. Physiological Properties of Bacterial Microorganisma: A Comparison of Adaptive Enzyme Patterns Formed by Penicillin-Sensitive and Penicillin-Resistant Microorganisms.

A. Richard Simone, Bact.; Bath, N.Y. (8643)

5783. Exercise Tolerance of Geriatric Patients With Chronic Cardiovascular and Respiratory Disease.

William A. Dodson, M.D., Ch. PMR Serv.; R. A. Parrish, B.S., Ch. Correct. Therapy Sec.; C. D. Hollis, B.S., M.S., Asst. Ch. Correct. Therapy Sec.; J. H. Garner, B.S., M.S., Correct. Therapist; Biloxi (Biloxi Div.), Miss. (8607)

5784. A Study of Discharge Planning for the Older Hospital Patients.

Margaret L. Newcomb, Ch. SWS; Solomon Papper, M.D., Asst. Ch. Med. Serv.; Mary E. Sullivan, Research SW; Boston, Mass. (10303)

5785. Evaluation of the Effects of Tranquilizing Drugs.

Oliver J. Harris, M.D., Dir. Prof. Serv.; Louis R. Weiss, M.D., Ch. Allergy Clinic; W. H. Chasen, M.D., Ch. Arth. Clinic; Joseph M. Looney, M.D., Ch. Clin. and Research Lab.; Isadore J. Karlsberg, M.D., Psychiat.; Melvin I. Sturnick, M.D., Intern.; Arthur J. Hadler, M.D., Ch. Med. Serv.; J. Warren Thiesen, Ph. D., Ch. Clin. Psychol.; Nathan Williams, M.D., Derm.; Myron H. Matz, M.D., Derm.; Milton E. Helman, M.D., Derm.; Andrew S. Dibner, Ph. D., Clin. Psychol., VAOC; Boston, Mass. (3061)

5786. A Comprehensive Study of Men Aged 80 or More.

James F. Cummins, M.D., Ch. Geriatrics Clinic; Joseph M. Looney, M.D., Ch. Clin. and Research Lab.; Andrew S. Dibner, Ph. D., Clin. Psychol.; Margaret R. Nichols, Soc. Worker; Alice Murray, Diet., VAOC; Boston, Mass. (3062)

5787. Induced Enzyme Formation by Pyrimidine and Purine Analogs.

Bernard Klein, Ph. D., Ch. Chem. Sec.; Judith Berkowitz, Biochem. Gen. Med. Research; Bronx, N.Y. (4490)

5788. Tooth-Supported Device Enabling Quadriplegic Patients To Grasp Small Objects.

Max A. Pleasure, D.D.S., Ch. Dent. Serv.; Mr. Norman Bodenstein, Tech. PMR Serv.; Bronx, N.Y. (8649)

5789. Prescription for Wheelchairs.

Sidney Z. Brent, PMR Coord.; Bronx, N.Y. (8659)

5790. Plexiglass Museum Jars: Suggestions for Labeling and Coloring.

Benjamin S. Gordon, M.D., Ch. Lab. Serv.; Miss Ellen A. Pudvan, Asst. Artist, Med. Illus. Serv.; Bronx, N.Y. (8661)

5791. Evaluation of a Reconstituted Dried Serum as a Clinical Chemistry Standard and Control in the Abnormal Range.

B. Klein, Biochem. Lab.; M. Weissman, Biochem. Lab.; Bronx, N.Y. (8673)

5792. Clinical Investigation of Phenampromid, a New Analgesic.

Walter Newman, M.D., Asst. Ch. Card. Sec.; Ambrose Boyle, M.D., Research Fellow, Card. Sec.; Solomon Fisch, M.D., Research Fellow, Card. Sec., VAH; Herbert S. Kupperman, M.D., Attend. Phys., Med. Serv., VAH, Assoc. Prof. Med., N. Y. U.; Bronx, N.Y. (9061)

5793. Adaption of Serum Alkaline Phosphatase Estimation to Automatic Operation—Use of the Technicon Autoanalyzer.

Bernard Klein, Ph. D., Ch. Biochem. Sec.; Bronx, N.Y. (9212)

5794. Radiological Examination of the Larynx With Special Reference to Paralysis of the Vocal Cords.

Sol M. Unger, M.D., Asst. Ch. Radiotherapy Serv.; Bernard Roswit, M.D., Ch. Radiotherapy Serv.; Joseph Stein, M.D., Ch. Radiol. Serv.; Bronx, N.Y. (10120)

5795. The Use of NaF as an Antiglycolytic Agent.

Milton Weissman, Biochem., Lab. Serv.; Bernard Klein, Ph. D., Ch. Chem. Sect., Lab. Serv.; Bronx, N.Y. (10121)

5796. Differentiation of Hydroxapatite From Fluorapatite Structure in Renal Calculi by Infra-Red Analysis.

Milton Weissman, Biochem., Lab. Serv.; Bernard Klein, Ph. D., Ch. Chem. Sec., Lab. Serv.; Bronx, N.Y. (10122)

5797. A System of Blood Analysis.

Bernard Klein, Ph. D., Ch. Chem. Sec., Lab. Serv.; Bronx, N.Y. (10124)

5798. Method of Determining Limb Size by Volumetry.

Alfred Ebel, M.D., Ch. PMR Serv.; Milton Holtzman, M.D., Sr. Resident, PMR Serv.; Bronx, N.Y. (10125)

5799. Relationship of Serum Citric Acid to Calcium Metabolism.

David R. Axelrod, M.D., Ch. Metab. Sec.; Martin Sass, M.S., Biochem., Med. Serv.; Brooklyn, N.Y. (2874)

5800. Effects of Sonic Oscillation on Mammalian Cytochrome *c*.

Philip Person, D.D.S., Ch. Spec. Dent. Research Prog.; Albert Fine, M.A., Biochem., Dent. Research Lab.; Brooklyn, N.Y. (2933)

5801. A Field Test of a Proposed Guide for the Study of Activities of Nursing Service Personnel in VA Hospitals.

Anna E. Marks, Ch. Nurs. Serv.; Mary E. Brundage, Asst. Ch. Nurs. Serv.; Castle Point, N.Y. (9403)

5802. The Rate of Incorporation of Rb^{86} by the Erythrocyte as an Index of Total Potassium.

George C. Henegar, M.D., Staff, Surg. Serv.; Fred W. Preston, M.D., Ch. Surg. Serv.; Barbara N. Roecker, Biochem.; Chicago (Res.), Ill. (3803)

5803. Study of Cholesterol Metabolism in Man.

John A. D. Cooper, Ph. D., M.D., Ch. RI Serv.; James W. Kuhl, M.D., Staff, Intern. Med.; Chicago (Res.), Ill. (3808)

5804. The Complimentary Value of a Research Laboratory to Patient Care and Education.

Wilson C. Grant, Ph. D., Super. Prin. Scien., Gen. Med. and RI; Catherine C. Ashley, Sc. B., Biochem., Gen. Med. Research; Coral Gables, Fla. (3223)

5805. Physiology of Pickwickian Disease or Obesity as it Affects Pulmonary Ventilation.

Russell H. Wilson, M.D., Ph. D., Asst. Dir. Prof. Serv. for Research; Dale A. Clark, Ph. D., Research Biochem.; Dallas, Tex. (3281)

5806. Determination of the Minimal Effective Prophylactic Dose of Beta Radiation for the Prevention of Recurrence of Pterygium.

Seymour B. Gostin, M.D., Ch. Ophth., ENT; Dallas, Tex. (3320)

5807. A Study of Therapeutic Value of Intramuscular Procaine Injections in the Care of Geriatric Patients.

Alfred G. Selinger, M.D., Ch. Med. Serv.; Robert E. Jones, Ph. D., Ch. Psychol. Serv.; Saul Halpern, M.D., Staff Phys.; Danville, Ill. (8540)

5808. Study of Nursing Activities of Selected Professional Nurses in a Neuropsychiatric Hospital.

Minnie J. Hartsfield, M.A., Asst. Ch. Nursing Educ.; Blessing Beasley, M.S., Ch. Nursing Serv.; Charles A. Davis, M.S., Asst. Ch. Nursing Serv.; Danville, Ill. (8887)

5809. Study of Cases Referred to Domiciliary Admissions Board.
Marie K. Oswald, Ph. D., Ch. SWS.; Dayton, Ohio. (12037)

5810. Comparison of Two Methods for Determining Serum Glutamic Oxaloacetic Transaminase (SGOT).
Nick Barbella, M. Sc., Biochem.; Dayton, Ohio. (12038)

5811. Clinical Effectiveness of Choline Salicylate (Liquid) as a Method of Salicylate Administration.
James F. Leary, M.D., Resident Med.; Dayton, Ohio. (12061)

5812. Subungual Hemorrhage in Pan Washers—A Preliminary Report.
Peter I. Long, Jr., M.D., Derm.; Dayton, Ohio. (12064)

5813. Further Evaluation of the Agar-Plate Precipitin Technique Physico-Chemically as Well as Immunologically.
B. H. Pringle, Ph. D., Prin. Scien., Ch. Med. Research Lab.; M. W. Wilson, M.D., Ch. Lab. Serv.; Dearborn, Mich. (3425)

5814. A Comparative Immunologic Study of Several Mammalian Fibrinogens.
M. W. Wilson, M.D., Ch. Lab. Serv.; B. H. Pringle, Ph. D., Prin. Scien.; Dearborn, Mich. (3429)

5815. A Comparative Immunologic Study of Several Ureases.
M. W. Wilson, M.D., Ch. Lab. Serv.; B. H. Pringle, Ph. D., Prin. Scien., Ch. Med. Research Lab.; Dearborn, Mich. (3431)

5816. Analysis of History and Psychological Characteristics of Patients with Similar MMPI Profiles.
H. B. Malos, Ph. D., Asst. Ch. Psychol. Serv.; Dearborn, Mich. (3461)

5817. Construct Validity Study of Certain Psychodynamic Concepts: Perception of Traumatic Words Indicative of Character Needs.
H. B. Malos, Ph. D., Asst. Ch. Psychol. Serv.; Dearborn, Mich. (3463)

5818. A Study of the Relationship Between Perceived Abilities and Aptitudes, Character Traits, and Subsequent Performance on Selected Psychological Measures.
R. L. Gunn, Ph. D., Clin. Psychol.; Dearborn, Mich. (3464)

5819. An Investigation of the Relationship Between Certain Psychological Variables and the Patient's Approach to and Performance in Physical Therapy.
R. L. Gunn, Ph. D., Clin. Psychol.; Dearborn, Mich. (3465)

5820. A Comparison of Scores on the General Aptitude Test Battery (GATB), Wechsler Adult Intelligence Scale (WAIS), and Kuder Preference Inventory.
R. L. Gunn, Ph. D., Clin. Psychol.; N. Papania, Ph. D., Clin. Psychol.; Dearborn, Mich. (3466)

5821. Changing Perception of Body Image in Response to Recovery from Long-Term Disease.
N. Papania, Ph. D., Clin. Psychol.; Dearborn, Mich. (3467)

5822. Glucagon and the Kidney.

H. Elrick, M.D., Ch. RI Serv.; C. J. Hlad, Jr., M.S., Asst. Ch. RI Serv.; Denver, Colo. (3472)

5823. Human Growth Hormone Studies.

H. Elrick, M.D., Ch. Research Lab. and RI Serv.; C. J. Hlad, Jr., M.S., Asst. Ch. RI Serv.; Denver, Colo. (3476)

5824. Hyperventilation with 100% Oxygen.

B. Eiseman, M.D., Ch. Surg. Serv.; Denver, Colo. (9476)

5825. Experimental Evaluation of Scrub Techniques in the Orthopedic Surgical Patient.

Herbert H. Maruyama, M.D., Orth. Sec.; James L. Tong, Ph. D., Bact.; Dorothy Shimp, B.S., Bact.; W. H. Mott, M.D., Orth. Sec.; M. E. Gibbens, M.D., Ch. Orth. Sec.; Denver, Colo. (9477)

5826. Physical Fitness Index Studies.

Harry T. Zankel, M.D., Ch. PMR Serv.; James M. Fields, Ch. Correct. Therapist; Durham, N.C. (3882)

5827. The Comparative Accuracy in Localization of Brain Tumors by Air Contrast Radiography, Angiography and EEG.

Robert L. Green, Jr., M.D., Clin. Invest., VAH; Ewald W. Busse, M.D., Cons. VAH, Prof. Psych., Duke Med. Cen.; Durham, N.C. (9501)

5828. The Neurologic Correlates of Learned Behaviour in Monkeys.

Isaac Behar, Post-Doctoral Stud. Tr., Duke Med. Cen.; Cynthia Hamilton, Research Assist., Duke Med. Cen.; Albert Heyman, M.D., Ch. Neur. Sect., VAH; Durham, N.C. (9555)

5829. The Effect of Physical Modalities on Blood Flow.

Harry T. Zankel, M.D., Ch. PMR Serv.; Robert H. Cress, M.D., Staff Phys., PMR Serv.; Durham, N.C. (9556)

5830. Action of Cytochrome *b*.

Donald Feldman, M.A., Ch. Med. Research Lab.; East Orange, N.J. (4004)

5831. Clinical Investigation of Despeciated Calves Bone (Osteogen).

Raphael Shelton, D.D.S., Staff Dent.; John B. Morrissey, D.D.S., Ch. Dent. Serv.; Joseph J. C. Thomson, D.D.S., Staff Dent.; Joseph E. Belott, D.D.S., Staff Dent.; Stanley Solomon, D.D.S., Staff Dent.; East Orange, N.J. (9424)

5832. Study of Activities of Nursing Units.

Irma Olsen, N. Ed., Asst. Ch. Nurs. Ed.; Ada G. Bowling, B.S.N.Ed., Surg. Super.; Dorothy Williams, B.S.N.Ed., Med. Super.; Arlene Ernst, RN, Super.; Laura Teasley, RN, Super.; Mary E. Zorbach, B.S.N.Ed., Asst. Ch. Night Nurs. Serv.; Lois Dixon, B.S.N.Ed., Super.; Fort Howard, Md. (9487)

5833. An Evaluation of Body Stature.

William E. Smedley, M.D., Ward Phys.; Grand Junction, Colo. (4116)

5834. A Technique for Investing Undecalcified Bone and Whole Mice in Methacrylate Plastic and the Preparation of Microscopic Sections.

Ervin Kaplan, M.D., Act. Assoc. Dir. RI Serv.; Joseph Greco, B.S., Biochem. RI Serv.; Hines, Ill. (4331)

5835. To Develop a Hospital Adjustment Index from Already-Existing Adjustment Forms Completed by Tuberculous Patients and Personnel in Several VA TB Hospitals and Services.

Robert P. Barrel, Ph. D., Super. Psychol. TB; Jonathan W. Cummings, Ph. D., Clin. Psychol.; Hines, Ill. (10401)

5836. Use of the Vim Silverman Needle for Obtaining Renal Biopsies in the Histological and Biochemical Study of Medial Renal Vascular Disease.

Hugh D. Bennett, M.D., Ch. Med. Serv., VAH; Julian Silverblatt, M.D., Clin. Asst. Prof. Med., Baylor Univ.; Houston, Tex. (4346)

5837. Psychological Aspects of Differences in Response to Physical Disability and Treatment.

Dale L. Johnson, Ph. D., Psychol.; Sidney E. Cleveland, Ph. D., Asst. Ch. Psychol. Serv.; Houston, Tex. (4438)

5838. Sodium and Potassium Content of Gulf Coast Region Saltwater Fish.

Lennie Oglesby, Research Diet.; Agnes Bannister, Ch. Diet. Serv.; Houston, Tex. (8794)

5839. Uveitis Survey by 72 Skin Tests and Immunologic Studies on Blood Studies on Blood Serum on 50 Patients With Known Uveitis.

Conard D. Moore, M.D., Resid. Ophthal.; Houston, Tex. (8957)

5840. An Immunologic Study of the Eye of the Rabbit Obtained by Traumatizing Iris Tissue and Relating This to the Uveitis Produced.

Conard D. Moore, M.D., Resid. Ophthal.; Houston, Tex. (8958)

5841. Food Acceptance Study.

Lennie Oglesby, M.S., Research Diet.; Houston, Tex. (9124)

5842. Analysis of 100 Consecutive Deaths at VAH, Huntington, West Virginia, 1956.

Eugene L. Walsh, M.D., Ch. Med. Serv.; George M. Lyon, M.D., Dir. Prof. Serv.; Huntington, W. Va. (4820)

5843. Analysis of 300 Consecutive Discharges at VAH, Huntington, West Virginia, 1956.

Eugene L. Walsh, M.D., Ch. Med. Serv.; George M. Lyon, M.D., Dir. Prof. Serv.; Huntington, W. Va. (4821)

5844. Comparative Study—Ultrasonic Therapy in a Physical Medicine and Rehabilitation Service.

George H. Zablocki, M.D., Ch. PMR Serv.; Florence G. Rahrig, Ch. Phys. Therapy; Huntington, W. Va. (4829)

5845. Determination of Amino Acids in Body Fluids.

Sidney Davis, M.A., Biochem.; Indianapolis, Ind. (4783)

5846. Enzymatic Conversion of Urocanic Acid to Formimino-glutamic Acid.

Daniel H. Hug, Ph. D., Ch. Research Bact.; Iowa City, Iowa. (4851)

5847. The Variability of Extracellular Fluid (Sucrose) Space in Man.

Richard E. Peterson, M.D., Ch. RI Serv.; James J. O'Toole, Ph. D., Biochem. RI Serv., VAH; Walter M. Kirkendall, M.D., Cons. VAH, Ch. Cardiovasc. Lab., State Univ. of Iowa Coll. of Med.; Iowa City, Iowa. (4899)

5848. Prediction of Psychiatric Nursing Assistant Performance From Pencil Maze Test Score.

Henry N. Peters, Ph. D., Ch. NP Research; Martha Kern, R.N., Ch. Nursing Educ.; Jefferson Barracks, Mo. (4934)

5849. Value of Ultrasonic Therapy in the Relief of Pain and Range of Motion for Varied Medical Conditions.

Dale Renaud, Physio-Therapist; Lincoln, Nebr. (6369)

5850. An Analysis of Some Elements of Social Work Recording.

Edna Keefe, SWS; Mary L. Christopherson, SWS; Rosemary R. Sorsby, SWS; Ernest A. Kurtz, Ph. D., Research Psychol.; Little Rock (No. Little Rock Div.), Ark. (6628)

5851. Comparison of Group, Individual and Other Media of Educational Therapy.

A. Lois Castleberry, Ch., Ed. Therapy; Richard E. Loomis, Ed. Therapy; Fred P. Whorton, Ed. Therapy; William J. Shive, Ed. Therapy; Oddist D. Murphree, Ph. D., Prin. Scien., NP Research; Little Rock (No. Little Rock Div.), Ark. (6635)

5852. Physical Therapists in Research.

Wilma-Nell Harmony, B.S., Ch. Phys. Therapy; Livermore, Calif. (11006)

5853. Predictive Factors in Discharge Problem.

Edna L. Bowbeer, B.A., SWS; Long Beach, Calif. (5162)

5854. Referrals to Community Resources in Relation to Problems Presented in Receiving and Out-Patient Department Who Were Denied Hospitalization During 1957.

Janet Gordon, B.A., SWS; Long Beach, Calif. (5163)

5855. Factors Determining Need for Additional Social Services to SAW Veterans Beyond the Initial Social Evaluation.

Ellen Saunders, B.A., SWS; Long Beach, Calif. (5164)

5856. Synthesis of S-Alanyl Ergothioneine.

Ellery C. Stowell, Jr., Ph. D., Biochem. Dent. Research; Long Beach, Calif. (8425)

5857. Inter-Station Follow-up Study of Selected Rehabilitation Cases.

Thelma Atkeson, Clin. Social Worker; Long Beach, Calif. (8839)

5858. Dye Salt Method of Analysis and Its Application in Phenothiazine Derivatives.

Francis R. Giannetti, B.S., Resident Pharm., VAC; Orville Miller, Ph. D., Cons. Pharm., VAC; Prof. Pharm., Univ. of Southern California; Charles G. Towne, M.S., Ch. Pharm. Serv., VAC; Los Angeles, Calif. (8438)

5859. Validation of a Supervisory Inventory.

Odell Hill, Ch. Personnel Div.; Richard P. Barthol, Ph. D., Psychol. Research Adv. VAC; Daphne E. Bugental, B.A., Research Asst. Indus. and Soc. Psychol., UCLA; J. Arthur Waites, Ph. D., Dir. Psychol. Serv., VAC; Harold H. Kassarjian, M.A., Soc. Psychol. Tr.; Los Angeles, Calif. (9170)

5860. Correlation of C-Reactive Protein and Erythrocyte Sedimentation Rate.

Bruce E. Rawlings, B.S., Ch. Bact. Dept.; Marie T. Esselmann, B.S., Med. Tech. Bact. Dept.; Louisville, Ky. (5430)

5861. Bibliography Research Project.

Morton Leventhal, Ph. D., Ch. Clin. Psychol.; Louisville, Ky. (5437)

5862. Mineral Requirements of the German Cockroach.

Jerre L. Noland, Ph. D., Ch. Med. Research Lab.; Mildred E. Lewis, B.S., Phys. Science Aid (Chem.); Paul X. Callahan, Ph. D., Research Biochem.; Louisville, Ky. (10735)

5863. Benign Hypertrophy of Masseter Muscle.

Heinz Oppenheim, M.D., Ch. Otolaryng.; Morgan E. Wing, M.D., Resident, Otolaryng.; Louisville, Ky. (10755)

5864. Use of Standard IBM Punch Cards As an Aid in Clinical Diagnosis.

Jerre L. Noland, Ph. D., Ch. Med. Research Lab.; Paul X. Callahan, Ph. D., Research Biochem.; Maurice Nataro, M.D., Ch. RI Serv.; Louisville, Ky. (10772)

5865. Chemical Sterilization of Dental Impression Materials from Tuberculous Mouths.

Mortimer Russell, Bact.; Kecoughtan, Va. (4990)

5866. Chemistry of Connective Tissue.

Kung-Ying Tang Kao, M.D., Ph. D., Ch. Biochem. Geriatrics Research Lab.; Thomas H. McGavack, M.D., Ch. Intermed. Serv.; Sally A. Hendricks, Biochem. Geriatrics Research Lab.; Martinsburg, W. Va. (5885)

5867. Reading Patterns in an Older, Hospitalized and Domiciled Population.

Arnold D. Krugman, Ph. D., Ch. Clin. Psychol. Serv.; Leonard Feingold, M.A., Psychol. Tr.; Alma Hair, B.L.S., Ch. Librarian; Martinsburg, W. Va. (5899)

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5868. Preparation and Metabolic Fate of Sterol Glycosides.

Leon Swell, Ph. D., Ch. Biochem. Gen. Med. Research; Ernest Stutzman, M.A., Chem. Gen. Med. Research; Henry Field, Jr., M.D., Ch. Med. Serv., VAH; Carleton R. Treadwell, Ph. D., Cons., VAC, Prof. Biochem., George Washington Univ. Sch. of Med.; Martinsburg, W. Va. (5912)

5869. Effects of Position in a Display Upon Problem Solving Ability of Aged Subjects.

Frank L. Vicino, Psychol. Tr.; Arnold D. Krugman, Ph. D., Ch. Clin. Psychol. Serv., VAC; Sherman Ross, Ph. D., Cons., VAC, Prof. Psychol., Univ. Maryland; Martinsburg, W. Va. (8822)

5870. Connective Tissue I: Soluble Protein, Collagen and Elastin Content.

Kung-Ying Tang Kao, M.D., Ph. D., Ch. Biochem. Geriatrics Research Lab.; Thomas H. McGavack, M.D., Ch. Intermed. Serv.; James G. Leslie, B.S., Biochem. Geriatrics Research Lab.; Sally A. Hendricks, B.S., Biochem. Geriatrics Research Lab.; William E. Hitt, Biochem. Geriatrics Research Lab.; Martinsburg, W. Va. (10826)

5871. Connective Tissue V: The *In Vitro* Synthesis of Collagen and Elastin.

Kung-Ying Tang Kao, M.D., Ph. D., Ch. Biochem. Geriatrics Research Lab.; Thomas H. McGavack, M.D., Ch. Intermed. Serv.; William E. Hitt, B.S., Biochem.; Willis S. Martin, Jr., B.A., and Charles A. Hizer, Tech. Geriatrics Research Lab.; Martinsburg, W. Va. (10827)

5872. Connective Tissue IV: C^{14} Lysine Turnover with Age.

Kung-Ying Tang Kao, M.D., Ph. D., Ch. Biochem. Geriatrics Research Lab.; Thomas H. McGavack, M.D., Ch. Intermed. Serv.; William E. Hitt, B.S., Biochem; Willis S. Martin, Jr.; Charles A. Hizer, Tech. Geriatrics Research Lab.; Martinsburg, W. Va. (10828)

5873. Connective Tissue III: C^{14} Lysine Incorporation.

Kung-Ying Tang Kao, M.D., Ph. D., Ch. Biochem. Geriatrics Research Lab.; Thomas H. McGavack, M.D., Ch. Intermed. Serv.; William E. Hitt, B.S., Biochem. Geriatrics Research Lab.; Willis S. Martin, Jr., B.A.; Charles A. Hizer, Tech. Geriatrics Research Lab.; Martinsburg, W. Va. (10829)

5874. Connective Tissue II: Collagen, Hexosamine and Lipid Content.

Kung-Ying Tang Kao, M.D., Ph. D., Ch. Biochem. Geriatrics Research Lab.; Thomas H. McGavack, M.D., Ch. Intermed. Serv.; Joy R. Hopper, B.S.; William E. Hitt, B.S., Biochem.; Willis S. Martin, Jr.; Charles A. Hizer, Tech. Geriatrics Research Lab.; Martinsburg, W. Va. (10830)

5875. Therapeutic Effect of Meprobamate in Small Doses.

Thornton S. Jennings, M.D., Ch. TB Serv.; Valentina Bulubash, M.D., Ward Phys.; Ellis O. Coleman, M.D., Ward Phys.; Martinsburg, W. Va. (10831)

5876. A Follow-up Study of Counselor Predictions of the Outcomes of Counseling in Terms of Five Dimensions of Success Probability.

Arthur D. Bradley, Ph. D., Ch. Vocat. Counsel. Serv.; Minneapolis, Minn. (6271)

5877. A Comparison of the Minnesota Vocational Interest Inventory, The Kuder Preference Record, and the Strong Vocational Interest Blank.

Thomas B. Scott, M.A., Couns. Psychol.; Minneapolis, Minn. (6275)

5878. A Multifactor Analysis of Persistence in Trade School Training.

Arthur D. Bradley, Ph. D., Ch. Voc. Couns. Serv.; Minneapolis, Minn. (6277)

5779. Occupational Prestige Values in Two Veterans Administration Hospitals.

James R. Kiland, A.B., M.A., Ph. D., Couns. Psychol.; Minneapolis, Minn. (6278)

5880. Descriptive Adjectives Associated With Measured Personality Characteristics of Liberal Arts College Freshmen.

Kathryn Holm, M.B.A., Counsel. Psychol. Tr.; Minneapolis, Minn. (6280)

5881. Outline for Proposed Study of Prestige Among Occupations in Psychology.

Stephen G. Granger, Ph. D., Couns. Psychol.; Minneapolis, Minn. (6281)

5882. The Occupational Prestige of Specialties in Clinical and Counseling Psychology.

Warren R. Jorve, B.A., M.A., Couns. Psychol. Tr.; Minneapolis, Minn. (6282)

5883. Admissions to Medical and Surgical Services With Respect to Proportionate Number of Patients Referred to Social Work Service.

Ada E. Cyrus, B.A., Tr. SWS, VAH; Edith Pearson, Student Clin. Soc. Work, Univ. of Minnesota; Alden V. Halloran, B.S., Super. Psychiat. SWS, VAH; Minneapolis, Minn. (6283)

5884. Attempted Cultivation of *Giardia Lamblia In Vitro* and in Chick Embryos.

Arthur I. Sanders, B.A., Parasitol.; Melvin Neren, B.A., Bact., VAH; Franklin G. Wallace, M.A., Ph. D., Attend. Parasitol., VAH, Assoc. Prof. Zool., Univ. of Minnesota; Minneapolis, Minn. (8599)

5885. Photomicrographs of Parasitic Organisms.

Arthur I. Sanders, B.A., Parasitol., VAH; Franklin G. Wallace, M.A., Ph. D., Attend. Parasitol., VAH, Assoc. Prof. Zool., Univ. of Minnesota; Minneapolis, Minn. (8600)

5886. Phase Microscopy and Its Use in Differentiation of Intestinal Protozoa.

Arthur I. Sanders, B.A., Parasitol., VAH; Franklin G. Wallace, M.A., Ph.D., Attend. Parasitol., VAH, Assoc. Prof. Zool., Univ. of Minnesota; Minneapolis, Minn. (8601)

5887. Counseling Interpretations for Minnesota Vocational Interest Inventory Based on Comparisons With Strong Vocational Interest Blank.

Thomas B. Scott, B.A., M.A., Couns. Psychol. Tr.; Minneapolis, Minn. (9849)

5888. The Relationship of Self-Satisfaction to Stated Vocational Preferences.

Richard A. Schutz, B.S., M.A., Couns. Psychol. Tr.; Minneapolis, Minn. (9850)

5889. The Relationship of Several Self-Other Indices to Measured and Claimed Vocational Interest.

Harley D. Christiansen, B.S., Couns. Psychol. Tr.; Minneapolis, Minn. (9851)

5890. Normative Data Concerning Intelligence and Inventoried Interests of Graduates of the 17 Vocational Courses at a Large Industrial School.

Arthur D. Bradley, Ph. D., Ch. Vocat. Couns. Serv.; Minneapolis, Minn. (9852)

5891. Relationship Between Army General Classification Test Scores and Course Grades at Dunwoody Industrial Institute.

Arthur D. Bradley, Ph. D., Ch. Vocat. Couns. Serv., VAH; Ralph H. Johnson, Ph. D., Dir. of Guid. Couns., Minneapolis Public Sch. System; Minneapolis, Minn. (9853)

5892. An Evaluation of Patient Response to Senior Veterans Group Experience.

Murray G. Berman, M.S.W., Clin. SW; Miriam L. Majander, M.S.W., Clin. SW; Margaret G. Wellner, M.S.W., Clin. SW; Minneapolis, Minn. (9854)

5893. Survey and Evaluation of the VA Podiatry Program.

Martin Mussman, Pod. D., Podiatrist; Montrose, N.Y. (8711)

5894. Modification and Assembly of Electronic Computer.

George R. Meneely, M.D., Cons. RI Serv.; Robert G. Dent, Electronics Tech., RI Serv.; Nashville, Tenn. (9988)

5895. An Evaluation of the Four Hospital-Regional Office Liaison Pre-Trial Visit Program—A Four Station Project.

Natalie J. Cave, M.S.S.W., Coord. Soc. Work Research and Training; Helen B. Jones, M.S.S.W., Case Super. Soc. Serv., VARO; Max Richter, Asst. Ch. Soc. Worker, VAH, Northport, N.Y.; Viney Williams, Asst. Ch. Soc. Worker, VAH, Montrose, N.Y.; Louis Kerdman, Case Super., VAOC, Brooklyn, N.Y.; New York, N.Y. (10865)

5896. A Study of the Role of Wives of Selected Veterans Who Have Received Trial Visit Supervision From the NYRO Social Service.

Harry J. Russell, M.S.S.W., Soc. Work Tr., VARO; New York, N.Y. (10866)

5897. A Study of Casework Activity with Wives of Veterans Who Have Received Treatment at the NYRO Mental Hygiene Clinic.

Inga Salomon, M.S.S.W., Soc. Work Tr., VARO; New York, N.Y. (10867)

5898. Relatives as a Factor in the Post-Hospital Adjustment of Mentally Ill Veterans.

Joseph F. Cifarelli, M.S.S.W., Soc. Work Tr.; Frank J. Germain, M.S.S.W., Soc. Work Tr.; William J. Neilan, M.S.S.W., Soc. Work Tr., VARO; New York, N.Y. (10869)

5899. Educational Achievement as a Prognostic Criteria in Rehabilitation of Schizophrenics.

Earl Frost, M. Ed.; Daniel Dancik, M.D.; Grace Fried, M.A.; Stanley Schwartz, Ph. D.; Northport, N.Y. (8383)

5900. The Effect of Success Background Followed by Failure Upon the Level of Performance of Schizophrenic Patients.

Milton Turbiner, Ph. D., Research Psychol.; Owen E. Nunez, M.D., Ward Phys.; Northport, N.Y. (8384)

5901. Comparison of Conventional Electrophoretic Procedures Paper Electrophoretic Procedures and Salt Fractionation Methods for the Study of Proteins from Plasma Gastric Juice and Body Tissues.

George H. Stidworthy, Ch. Biochem., VAH; Marvin R. Shetlar, Ph. D., Assoc. Prof. Biochem., Oklahoma Univ; Yanna F. Masters, Tech., VAH; Oklahoma City, Okla. (6895)

5902. A Quantitative Formol-Gel Test.

O. Kanner, M.D., Ch. Lab. Serv.; Frances Boyd, Med. Tech.; Oteen, N.C. (6669)

5903. Development of a Screening Scale for Food Service Workers.

Dale D. Simmons, Psychol. Tr.; Gladys B. Swenson, Ch. Diet. Serv.; Gloria E. Jorgenson, Superv. Diet.; Portland, Ore. (7160)

5904. General Psychotherapy: An Outline and Study Guide.

John G. Watkins, Ph. D., Ch. Clin. Psychol.; Portland, Ore. (10640)

5905. A Study of the Modifiability of the Judgment Process.

Walter Nunokawa, Psychol. Tr., VAH; Paul J. Hoffman, Ph. D., Asst. Prof., Univ. of Oregon, Eugene, Ore.; Portland, Ore. (10641)

5906. Hazards of Adrenocorticosteroid Therapy.

W. T. Thompson, Jr., M.D., Ch. Med. Serv.; John J. Kelly, III, M.D., Sect. Ch. Med. Serv.; Richmond, Va. (9926)

5907. The Effect of Aging on Coronary Artery Disease and Coronary Blood Flow.

Richard J. Bing, M.D., Asst. Dir. Prof. Serv. for Research, VAH; Robert E. Mack, M.D., Dir. St. Louis Univ. Med. Serv.; St. Louis, Mo. (7682)

5908. Resistance of the Heart Muscle to Anoxia.

Richard J. Bing, M.D., Asst. Dir. Prof. Serv. for Research, VAH; William H. Danforth, M.D., Asst. Dir., Washington Univ. Med. Serv.; Siegfried Naegle, B.S., Research Asst., Washington Univ. Sch. Med.; St. Louis, Mo. (7683)

5909. Isolation of Success Predictors in Management Development Candidate Selection.

Daniel N. Wiener, Ph. D., Ch. Clin. Psychol.; David M. Wark, Clin. Psychol. Tr.; Dennis Wilson, Clin. Psychol. Tr.; St. Paul, Minn. (10228)

5910. Use of Colored Paper for Forms Included in Patients' Clinical Folders.

Dale S. Higbee, Ph. D., Clin. Psychol.; Salisbury, N.C. (8735)

5911. Studies of Aide Selection, Aide Performance Evaluation, and Studies of Correlates of Aide Job Turnover.

William R. Dobson, Ph. D., Research Psychol.; Robert B. Ellsworth, Ph. D., Research Psychol.; Grace Butler, R.N., Asst. Ch. Nurs. Serv. Education; Jane L. Ernst, R.N., Ch. Nurs. Serv.; Waldo H. Koller, Pers. Placement Officer; Robert D. Simpson, Ch. Pers; Stanley Mulaik, B.S., Clin. Psychol. Tr.; Elwin Nielsen, B.S., Clin. Psychol. Tr.; Salt Lake City, Utah. (7337)

5912. Factors in Organ Growth.

Terence H. Cochran, M.D., Ch. Lab. Serv.; Salt Lake City, Utah. (7374)

5913. Pathological–Physiological Study of Normal Lungs in an Aging Population.

Terence H. Cochran, M.D., Ch. Lab. Serv.; Jerome E. Cohn, M.D., Dir. Pulm. Func. Lab.; Salt Lake City, Utah. (10524)

5914. Cerebral Atrophy in Chronic Alcoholics.

Ernest T. Ajax, M.D., Asst. Ch. Neur. Serv.; Leonard W. Jarcho, M.D., Ch. Neur. Serv.; Salt Lake City, Utah. (10525)

5915. The Multiple-Pattern Method of Visual Field Examinations: A Five-Year Evaluation.

David O. Harrington, M.D., Attend VAH, Clin. Prof. Ophth., Univ. of California Sch. Med.; Milton Flocks, M.D., Asst. Clin. Prof. Surg. (Ophth.), Stanford Univ. Sch. Med.; San Francisco, Calif. (9782)

5916. Evaluation of Cornmeal Agar and Nickerson's & Mankouski's (Chlamydospore Agar Difco) Alone and in Combination for the Classification of Candida Albicans.

Maria Esther Belaval, M.S., Mycol. Gen. Med. Research Lab. VAH; Maria H. Diaz de Costa-Mandry, Med. Tech., P. R. Public Health Dept.; San Juan, P.R. (8825)

5917. Production of Specific Antisera Against the Globulin Fraction Responsible for a Positive Circumoval Test in Human Schistosomiasis Mansoni.

R. Merendez-Corrada, M.D., Ch. Hemat. Sec.; Amina Rivera de Sala, M.T., Med. Biol. Tech.; Marta Cancio, Ph. D., Super. Biochem.; San Juan, P.R. (8826)

5918. Actual Sodium Content of the Different Low Sodium Diets Used in San Patricio Hospital.

Paquita Haddock de Agosto, B.S., Training Diet.; Marta Cancio, Ph. D., Super. Biochem.; Juan M. Becerra, M.D., Resident Intern. Med., VAC; Ada M. Irizarry, Diet., Univ. of Puerto Rico, Sch. of Med.; San Juan, P.R. (11039)

5919. Lipide Chemistry of Adipose Tissue.

David D. Feller, Ph. D., Act. Ch. RI Serv.; Elmer Feist, B.S., Biochem.; Seattle, Wash. (7666)

5920. Endogenous Respiration.

Norman R. Eaton, Ph. D., Biochem. RI Serv.; Seattle, Wash. (7668)

5921. Personality Structure of Psychiatric and General Medicine and Surgery Nurses.

L. Navran, Ph. D., Coord., Psychol. Training Serv., VAH, Sepulveda, Calif.; J. C. Stauffacher, Ph. D., Dir. Psychol. Serv., VAH; American Lake, Wash. (7551)

5922. Individual Covert Reactions in a Group.

F. Harold Giedt, Ph. D., Ch. Psychol. Research Serv.; Sepulveda, Calif. (8862)

5923. A Survey of Literature Relating to Intensive Hospital Treatment Focuased Upon Leave Planning.

H. Wood, SWS Tr.; Clement W. Matzen, SWS, Training Coord.; Sepulveda, Calif. (10462)

5924. Interest Patterns of Nurses.

William V. Levy, Counsel. Psychol. Tr.; Sepulveda, Calif. (10463)

5925. Three Decades of A.P.A. Publications.

Alvin R. Howard, Ph. D., Ch. Psychol. Serv.; Sheridan, Wyo. (7673)

5926. Joint Project of Pathology and Orthopedics on Muscular and Neuromuscular Disease.

Robert O. Becker, M.D., Ch. Orth. Serv.; J. Albert Schaefer, M.D., Ch. Lab. Serv.; James MacD. Watson, M.D., Ch. Neur. Sec.; Syracuse, N.Y. (8722)

5927. Sensory Reduction and Level of Arousal.

John B. Deiter, Ph. D., Asst. Ch. Psychol. Serv.; Maurice H. Bisharat, M.D., Resident Psychiat; Topeka, Kans. (9261).

5928. Further Investigation into the Nature of Subception.

John B. Deiter, Ph. D., Asst. Ch. Psychol. Serv.; Topeka, Kans. (9262)

5929. An Improved Aeration Method for Blood Urea Nitrogen Determination.

Walter Paul Gibble, Ph. D., Research Biochem.; Peter Virgil Branconi, Ch. Lab. Tech.; Tucson, Ariz. (10656)

5930. A Study of Social Factors Involved in the Completion of Bed Occupancy Care Program.

Isabel T. Mealing, MSW, Ch. SWS; Blanche E. Welch, MSW, Super. Clin. Soc. Worker; Stella M. Taylor, MSW, Clin. Soc. Worker; Helen Keith, A.B., Clin. Soc. Worker; Wadsworth, Kans. (8039)

5931. Efficacy of Gadget Entitled "Selection of Referrals to Social Work Service for Planning Post-Hospital Living Arrangements."

Isabel T. Mealing, MSW, Ch. SWS; Blanche E. Welch, MSW, Super. Clin. Soc. Worker; Ruth Dunmire, A.B., Clin. Soc. Worker; Freda Northcutt, A.B., Clin. Soc. Worker; Wadsworth, Kans. (8040)

5932. Early Stress Experiences as Related to Later Maturity.

Albert Casey, Experiment. Psychol. Tr.; Keith Bowman, Supervisory Chem.; Wadsworth, Kans. (8890)

5933. The Role of Inhibition Factors in Learning Deficits With Aging.

Albert Casey, M.A., Exper. Psychol. Tr.; Wadsworth, Kans (8895)

5934. Pollen Survey.

Frank B. Fuller, Bact.; Myron L. Fuller, Med. Biol. Tech.; Walla Walla, Wash. (10158)

5935. Study of Readmissions of Older Hospital Patients.

Walter Kurland, Ch. Admit. Office; Elizabeth Morris, Research Soc. Worker; Washington, D.C. (7980)

5936. The Mechanism of the Dehydrogenase Inhibiting Action of Chlorpromazine Hydrochloride (Thorazine) in the Isolated Leucocyte.

William V. C. Leahy, Ph. D., Phy. RI Serv.; Thomas F. McNickle, Biol. RI Serv.; Washington, D.C. (10606)

5937. Simplified Method for the Determination of the Lipid Components of Blood Serum.

H. V. Connerty, M.D., Ch. Lab. Serv.; Anglis R. Briggs, Biochem.; Wilmington, Del. (10166)

5938. A Simplified Urea Clearance Test.

H. V. Connerty, M.D., Ch. Lab. Serv.; Anglis R. Briggs, Biochem.; Edward H. Eaton, Jr., Chem. Tech.; Wilmington, Del. (10167)

5939. Simplified Rapid Method for the Fixation of Paper Electrophoretograms.

H. V. Connerty, M.D., Ch. Lab. Serv.; Anglis R. Briggs, Biochem.; Edward H. Eaton, Jr., Chem. Tech.; Wilmington, Del. (10168)

5940. Effect of Hubbard Tank on Diuresis.

Robert W. Boyle, M.D., Cons. PMR Serv., VAH, Assoc. Prof. PMR, Marquette Univ.; DeLore Williams, M.D., Phys. PMR Serv., VAC; Albert M. Cohen, M.D., Phys. PMR Serv.; Wood, Wis. (8266)

5941. Evaluation of Planned Activity Programs for the More Severely Disabled Domiciliary Members.

Richard N. Filer, Ph. D., Ch. Dom. Pilot Serv.; Clarence H. Burnett, M.D., Ch. Dom. Med. Serv.; Joseph G. Riley, A.B., Coord. PMR Serv.; Sylvester F. Verbeten, Ph. B., Const. Act. Coord. Dom. Pilot Serv.; Elroy D. Munck, Recrea. Superv. Spec. Serv. Div.; Beatrice W. Martin, M.A., M.S., Ch. SWS; Wood, Wis. (8273)

14. Radioisotope Studies (Not Elsewhere Classified)

5942. Studies of the Site of Serum Binding of Vitamin B_{12}

Charles A. Hall, M.D., Ch. RI Serv., Ch. Hemat. Sect.; John J. Cincotti, M.D., Ch. Gen. Surg. Sect.; Albany, N.Y. (2039)

5943. Effect of Body Fluids and Tissue on Sample Counting of Various Gamma Emitting Radioisotopes.

Charles A. Hall, M.D., Ch. RI Serv., Ch. Hemat. Sect., VAH; Roland A. Allen, Assoc. Prof. Phys., Siena College, Loudonville, N.Y.; Mary G. Jobman, Phys. Science Aide, RI Serv., VAH; Albany, N.Y. (2043)

5944. Permeases and Regulation of Enzymatic Activity.

Boris Rotman, Ph. D., Research Dir. RI Serv.; Albany, N.Y. (9280)

5945. Radioiron Turnover Studies and Iron Distribution.

Ronald C. Bishop, M.D., Assoc. Prof. Intern. Med., Simpson Memorial Inst., Univ. of Michigan; Donald R. Korst, M.D., Act. Ch. RI Serv., VAH; Ann Arbor, Mich. (2194)

5946. Estimation of Oral Radioiron Gastrointestinal Absorption.

Donald R. Korst, M.D., Act. Ch. RI Serv., VAH; Ronald C. Bishop, M.D., Assoc. Prof. Intern. Med., Simpson Memorial Inst., Univ. of Michigan; Ann Arbor, Mich. (2195)

5947. Radiochromate Studies of Hemolytic Anemia Prior to Splenectomy.

Donald R. Korst, M.D., Act. Ch. RI Serv., VAH; Ronald C. Bishop, M.D., Assoc. Prof. Intern. Med., Simpson Memorial Inst., Univ. of Michigan; Mary H. Rennie, RI Scien. (Radiol. Safety), VAH; Ann Arbor, Mich. (2200)

5948. Evaluation of Induced Hypothyroidism With Radioiodine in Patients With Angina Pectoris and Pulmonary Emphysema.

Donald R. Korst, M.D., Act. Ch. RI Serv.; Ann Arbor, Mich. (2201)

5949. P-32 Therapy of Patients With Severe Secondary Polycythemia.

Rudolph E. Reichert, Jr., M.D., Act. Ch. Card. Sect., VAH; Ronald C. Bishop, M.D., Assoc. Prof. Intern. Med., Simpson Memorial Inst., Univ. of Michigan; Donald R. Korst, M.D., Ch. RI Serv., VAH; Ann Arbor, Mich. (2202)

5950. Radioactive Vitamin B_{12} Studies.

Frank H. Bethell, M.D., Dir. Simpson Memorial Inst., Prof. Intern. Med., Univ. of Michigan; Ronald C. Bishop, M.D., Assoc. Prof. Intern. Med., Simpson Memorial Inst., Univ. of Michigan; Donald R. Korst, M.D., Act. Ch. RI Serv., VAH; Ann Arbor, Mich. (2203)

5951. Electrophoretic Studies in Thyroiditis.

Donald R. Korst, M.D., Act. Ch. RI Serv.; Ann Arbor, Mich. (2204)

5952. Studies in Special Hematology Problems Using Dual Isotope Techniques in Cancer Chemotherapy Patients.

Donald R. Korst, M.D., Act. Ch. RI Serv.; Ann Arbor, Mich. (2205)

5953. Effects of Nitrogen Mustard on the Bone Marrow.

Donald R. Korst, M.D., Ch. RI Serv.; Henry K. Schoch, M.D., Ch. Med. Serv.; Ann Arbor, Mich. (2206)

5954. Radiophosphorus Treatment of Multiple Myeloma.

Donald R. Korst, M.D., Act. Ch. RI Serv; Charles T. Knorpp, Asst. Ch. RI Serv., VAH; Frank H. Bethell, M.D., Dir. Simpson Memorial Inst., Prof. Intern. Med., Univ. of Michigan; Ann Arbor, Mich. (2208)

5955. Changes in Blood Volume and Distribution and Splenic Activity Induced by Epinephrine.

Donald R. Korst, M.D., Ch. RI Serv.; Ann Arbor, Mich. (2209)

5956. Radiothyroxine Studies.

William H. Beierwaltes, M.D., Assoc. Prof. Int. Med., Univ. of Mich.; Charles T. Knorpp, Asst. Ch. (Scien.) RI Serv., VAH; Donald R. Korst, M.D., Act. Ch. RI Serv.; Ann Arbor, Mich. (2229)

5957. Studies in Carbohydrate Metabolism (Uptake of Labelled Glucose by Tissue Glycogen *In Vivo*).

Arthur F. Dratz, Ph. D., Asst. Ch. (Scien.) RI Serv.; Barbara M. Covey, B.S., Biochem., RI Serv.; Atlanta, Ga. (2279)

5958. Study of Excretion of Radioactive Iodine by the Kidneys.

Earl Haltiwanger, M.D., Ch. Urol.; James C. Coberly, M.D., Ch. RI Serv.; Atlanta, Ga. (8884)

5959. The Use of the Tsuyatscan to Determine Optimum Counting Geometrics in Well-Bottomed Counters.

Arthur F. Dratz, Ph. D., Asst. Ch. Scien. RI Serv., VAH; Robert H. Rohrer, Ph. D., Cons., VAH, Prof. Physics, Emory Univ.; Atlanta, Ga. (9600)

5960. The Use of the Tsuyatscan To Study Radioactive Renogram Counting Techniques.

Arthur F. Dratz, Ph. D., Asst. Ch. Scien. RI Serv.; James C. Coberly, M.D., Ch. RI Serv.; Robert H. Rohrer, Ph. D., Cons. VAH, Prof. Physics, Emory Univ.; Barbara M. Covey, B.S., Biochem. RI Serv.; Jacob H. Goldstein, Ph. D., Cons. VAH, Prof. Chem., Emory Univ.; Atlanta, Ga. (9601)

5961. Metabolism and Quantitation of Orally and in Administered Isonicotinic Acid Hydrazide.

Robert L. Davis, Sc. D., Biochem., Lab. Serv.; Joseph R. Gladue, M.D., Phys., Med. Serv.; Baltimore, Md. (2383)

5962. Study of the Absorption of C^{14} Isoniazid in Rats.

Jeng M. Hsu, Ph. D., Research Biochem., Lab. Serv.; Robert C. Duvall, M.D., Ch. Med. Serv.; Baltimore, Md. (9306)

5963. Pulse Height Resolution of Plastic Scintillators.

Gerald J. Hine, Ph. D., Physicist, RI Serv.; John Cardarelli, B.S., Physicist, RI Serv.; Anthony Liuzzi, B.S., Physicist, RI Serv.; Boston, Mass. (2761)

5964. External Body Counting for Radioisotope Distribution Studies.

Gerald J. Hine, Ph. D., Physicist, RI Serv.; John Cardarelli, B.S., Physicist, RI Service; Belton A. Burrows, M.D., Ch. RI Serv.; Boston, Mass. (2764)

5965. Effects of Dietary Sodium on Exchangeable Sodium.

Gerald J. Hine, Ph. D., Physicist, RI Serv.; Paul I. Jagger, M.D., USPHS Post-Doctoral Research Fellow Med.; Belton A. Burrows, M.D., Ch. RI Serv.; Boston, Mass. (10247)

5966. The Use of Radioisotopes (Gold, Palladium and Ytrium) Applied by Sero-taxic Procedures.

Erich G. Krueger, M.D., Ch. Neurosurg. Serv.; J. B. Campbell, M.D., Attend. Neurosurg. Serv., VAH, Asst. Clin. Prof. Neur. Surg., Columbia Univ.; Bronx, N.Y. (4887)

5967. Radiation Dosage Measurements in Living Subjects.

Bernard Roswit, M.D., Ch. Radiotherapy Serv.; Stanley J. Malsky, Ch. Phys., Radiotherapy Serv.; Cyprian B. Reid, Sr. Phys., Radiotherapy Serv.; Sol M. Unger, M.D., Asst. Ch. Radiotherapy Serv.; Charles Amato, Attend. Radiotherapy Serv.; Charles Spreckels, Attend. Radiotherapy Serv.; Bronx, N.Y. (10127)

5968. Transit Dosimetry in Rotation Therapy.

Stanley J. Malsky, Phys., Radiotherapy Serv.; Bernard Roswit, M.D., Ch. Radiotherapy Serv.; Cyprian B. Reid, Sr. Phys., Radiotherapy Serv.; Sol M. Unger, M.D., Asst. Ch. Radiotherapy Serv.; Charles Spreckels, Attend. Radiotherapy Serv.; Bronx, N.Y. (10128)

5969. Studies With Insulin Binding Antibody.

Sol. A. Berson, M.D., Ch. RI Serv.; Rosalyn S. Yalow, Ph. D., Asst. Ch. RI Serv., VAH; Enoch Gordis, M.D., Fellow, Dazian Found.; Herman Black, M.D., Ch. Med. Sec. B, VAH; Jane H. Morse, M.D., Fellow, Nat. Found. Infantile Paralysis; Bronx, N.Y. (10132)

5970. Thyroid Function Studies.

Enoch Gordis, M.D., Fellow, Dazian Found.; Rosalyn S. Yalow, Ph. D., Asst. Ch. RI Serv., VAH; Solomon A. Berson, M.D., Ch. RI Serv.; Bronx, N.Y. (10133)

5971. Studies With the Isotope Concentration Gradient Analyzer.

Solomon A. Berson, M.D., Ch. RI Serv.; Rosalyn S. Yalow, Ph. D., Asst. Ch. RI Serv.; Bronx, N.Y. (10134)

5972. Studies With I^{131}-Labeled Antigen-Antibody Complexes.

Solomon A. Berson, M.D., Ch. RI Serv.; Rosalyn S. Yalow, Ph. D., Asst. Ch. RI Serv.; Katharina Newerly, Biochem. RI Serv.; Bronx, N.Y. (10135)

5973. Metabolism of I^{131}-Labeled Proteins.

Solomon A. Berson, M.D., Ch. RI Serv.; Rosalyn S. Yalow, Ph. D., Asst. Ch. RI Serv., VAH; Robert L. Wolf, M.D., Fellow, Arth. and Rheum. Found.; Eric Pollaczek, Ph. D., Biochem. Gen. Med. Research, VAH; Bronx, N.Y. (10136)

5974. Radiation Chemistry of Iodinated Amino Acids and Proteins.

Rosalyn S. Yalow, Ph. D., Asst. Ch. RI Serv.; Solomon A. Berson, M.D., Ch. RI Serv.; Bronx, N.Y. (10137)

5975. Metabolism of Antigen-Antibody Complexes.

Harry Walter, Ph. D., Prin. Scien., RI Serv.; Herbert Zipper, M.A., Biochem., RI Serv.; Brooklyn, N.Y. (2955)

5976. Synthesis and Degradation of Proteins (I).

Harry Walter, Ph. D., Prin. Scien., RI Serv.; Herbert Zipper, M.A., Biochem., RI Serv.; Brooklyn, N.Y. (2956)

5977. Synthesis and Degradation of Proteins (II).

Harry Walter, Ph. D., Prin. Scien., RI Serv.; Herbert Zipper, M.A., Biochem., RI Serv.; Brooklyn, N.Y. (2957)

5978. Synthesis and Degradation of Proteins (III).

Harry Walter, Ph. D., Prin. Scien., RI Serv.; Lester M. Levy, M.D., Asst. Ch. Clin., RI Serv.; Martin Sass, M.S., Biochem., Med. Serv.; Brooklyn, N.Y. (2958)

5979. Immunochemical Determination of Circulating Hormonal Levels.

Lester M. Levy, M.D., Asst. Ch. Clin. RI Serv., Brooklyn, N.Y. (2959)

5980. Improvement in Uptake and Scanning Technique for Radioisotope Localization.

Lester M. Levy, M.D., Asst. Ch. Clin. RI Serv.; Brooklyn, N.Y. (2960)

5981. Synthesis and Degradation of Proteins (IV).

Harry Walter, Ph. D., Prin. Scient., RI Serv., VAH; G. Jeanette Thorbecke, M.D., Dept. Path., New York Univ.; Brooklyn, N.Y. (10790)

5982. Formation of Citric Acid by the Prostate Gland.

Wells E. Farnsworth, Ph. D., Research Biochem.; J. Richard Brown, Research Lab. Biochem.; Ted M. Bow, Biochem.; Buffalo, N.Y. (3794)

5983. The Effect of Tolbutamide on the Thyroid Uptake and Urinary Excretion of I 131.

Grosvenor W. Bissell, M.D., Ch. Med. Serv.; Ted M. Bow, Biochem.; Dolores L. Swack, RI Tech.; Buffalo, N.Y. (3795)

5984. Correlation of Protein-Bound Iodine 131 Conversion Ratio With Routine P-B-I Studies.

Donald W. S. Stiff, M.D., Act. Dir. RI Serv.; Ted M. Bow, Biochem.; Dolores L. Swack, RI Tech.; Buffalo, N.Y. (9343)

5985. Development of Liquid Scintillation Counting Techniques.

John A. D. Cooper, Ph. D., M.D., Ch. RI Serv.; Barbara N. Roecker, Biochem.; James R. Brown, Biochem.; Chicago (Res.), Ill. (3810)

5986. Development of a Liquid Scintillation Counter.

John A. D. Cooper, Ph. D., M.D., Ch. RI Serv.; William T. Powers, Phys.; Chicago (Res.), Ill. (3813)

5987. Isolation, Purification and Characterization of Erythropoietin From Rabbit Urine.

John A. D. Cooper, M.D., Ch. RI Serv.; James R. Brown, M.S., Biochem.; Chicago (Res.), Ill. (9118)

5988. Aqueous Systems Applicable for Counting High Energy Beta Emitting Radioisotopes With Liquid Scintillation Counters.

Jack C. Towne, Ph. D., Asst. Ch. RI Serv.; Chicago (Res.), Ill. (9121)

5989. Studies on the Mechanism of Action of the Phosphoglyceric Acid Mutases.

Jack C. Towne, Ph. D., Asst. Ch. RI Serv.; Chicago (Res.), Ill. (9122)

5990. Measurement of Iron-Binding Capacity of Serum with Fe^{59} and Scanning of Electrophoretogram.

Paul Heller, M.D., Asst. Dir. Prof. Serv. for Research; Walter Henderson, B.S., Asst. Ch. RI Serv.; Everett N. Bowser, B.S., Prin. Scien. RI Serv.; Chicago (W.S.), Ill. (3792)

5991. The Calcium Binding Properties of Human Blood Proteins in Health and Disease.

Richard Goldsmith, M.D., Ch. RI Serv.; Cincinnati, Ohio. (3117)

5992. Calcium Metabolism in Sarcoidosis.

Richard Goldsmith, M.D., Ch. RI Serv.; Cincinnati, Ohio. (3118)

5993. The Role of Copper in the *In Vitro* Synthesis of Monoiodotyrosine.

Richard Goldsmith, M.D., Ch. RI Serv.; Donald J. Gilbert, Biochem. RI Lab.; Cincinnati, Ohio. (3119)

5994. A Study of Two Goiterous Cretin Siblings.

Richard Goldsmith, M.D., Ch. RI Serv.; Donald J. Gilbert, Biochem. RI Lab.; Cincinnati, Ohio. (10384)

5995. Bacterial Mutant Studies.

Donald J. Gilbert, Biochem. RI Lab.; Cincinnati, Ohio. (10939)

5996. Antigen-Antibody Experiment Employing TSH.

Donald J. Gilbert, Biochem. RI Lab.; Cincinnati, Ohio. (10940)

5997. Investigation of the Metabolic Abnormalities Leading to Abnormal Bleeding and Bony Determination Found in 2 Patients with Hyperglobulinemia.

Richard Goldsmith, M.D., Ch. RI Serv.; Cincinnati, Ohio. (10942)

5998. Shunts in the Pulmonary Circulation.

Gordon C. Ring, Ph. D., Prof. and Chm. Dept. Phy., Univ. of Miami Sch. of Med.; Alvin S. Blum, Sc. B., Asst. Ch. RI Serv., VAH; Coral Gables, Fla. (3253)

5999. Pulmonary Circulation Time.

Alvin S. Blum, Sc. B., Asst. Ch. RI Serv.; Coral Gables, Fla. (3258)

6000. Radioactive Surfaces.

Alvin S. Blum, Sc. B., Asst. Ch. RI Serv.; Albert E. Johnson Jr., Sc. B., Biochem. RI Serv.; Coral Gables, Fla. (3259)

6001. Enzyme Studies on Single Mammalian Cells.

Henry Lanz, Ph. D., Act. Dir. RI Serv.; Dallas, Tex. (3350)

6002. The Life Span of Erythrocytes in Uremic Patients.

Donald A. Sutherland, M.D., Cons. RI Serv., VAH, Dir. Med. Educ. and Research, St. Paul's Hosp.; Mary S. McCall, Biol. RI Serv., VAH; E. E. Muirhead, M.D., Cons.; Dallas, Tex. (3351)

6003. The Coombs Test and Reticulocytes.

Donald A. Sutherland, M.D., Cons. RI Serv., VAH, Dir. Med. Educ. and Research, St. Paul's Hosp.; Anna M. Eisentraut, Hemat. RI Serv., VAH; Dallas, Tex. (3352)

6004. The Erythropoietic Factor in the Anemia of Uremia.

Lora S. Keller, Biol. RI Serv.; Dallas, Tex. (3353)

6005. Simultaneous Measurement of Erythrocyte Production and Destruction.

Henry C. Lanz, Ph. D., Act. Dir. RI Serv., VAH; Donald A. Sutherland, M.D., Cons. RI Serv., VAH, Dir. Med. Educ. and Research, St. Paul's Hosp.; Mary S. McCall, Biol. RI Serv., VAH; Dallas, Tex. (3355)

6006. Blood Volumes Before and After Weight Loss.

Mary S. McCall, Biol. RI Serv.; Dallas, Tex. (3356)

6007. Splenic Control Mechanism.

Donald A. Sutherland, M.D., Cons. RI Serv., VAH, Dir. Med. Educ. and Research, St. Paul's Hosp.; Anna M. Eisentraut, Hemat. RI Serv., VAH; Mary Sue McCall, Biol. RI Serv.; Dallas, Tex. (3357)

6008. An Abbreviated Method for Blood Volume Measurement Employing Radiochromium.

Mary Sue McCall, Biol. RI Serv.; Lora Sue Keller, Biol. RI Serv.; Dallas, Tex. (10354)

6009. Measurement of Absolute C^{14} Beta Activity in Small Samples.

E. R. Powsner, M.D., Clin. Invest.; Dearborn, Mich. (9083)

6010. Na^{22} Space of Distribution.

C. J. Hlad, Jr., M.S., Asst. Ch. RI Serv.; E. R. Huffman, M.D., Ch. Card. Sec.; H. Elrick, M.D., Ch. Research Lab. and RI Serv.; Denver, Colo. (3519)

6011. A New Method for Measuring Hepatic Blood Flow.

C. J. Hlad, Jr., M.S., Staff Physicist, RI Serv; F. Stoll, Research Tech., VAH; T. Reardon, A. B., Student, Univ. of Colorado Sch. of Med.; H. Elrick, M.D., Ch. RI Serv., VAH; Denver, Colo. (9478)

6012. Effect of Iontophoresis and Other Variables on Absorption of Radioactive Ions Through Skin.

Harry T. Zankel, M.D., Ch. PMR Serv.; R. H. Cress, M.D., Staff Phys. PMR Serv.; Henry Kamin, Ph. D., Biochem., RI Serv.; Durham, N.C. (3966)

6013. Cellular Concentration of Urea C^{14}.

H. V. Murdaugh, M.D., Clin. Invest., VAH; Bodil Schmidt-Nielson, Ph. D., Assoc. Resident Prof. Zoology, Duke Univ.; Burley H. McCraw, M.A., Physicist, RI, VAH; Henry Kamin, Ph. D., Biochem.; Durham, N.C. (3967)

6014. Blood Volume Determinations in Patients With Gastrointestinal Hemorrhage.

Ivan Keever, M.D., Instr. Med., Duke Univ.; Malcolm P. Tyor, M.D., Ch. GI, VAH; Durham, N.C. (3973)

6015. Turnover of Serum Mucoprotein.

W. P. Deiss, Jr., M.D., Ch. Med. Serv.; Leila B. Holmes, A.B., Biochem.; Durham, N.C. (3974)

6016. Studies on Succinoxidase.

Henry Kamin, Ph. D., Biochem., RI Serv., VAH; Robert H. Gibbs, B.S., Medical Student, Duke Med. Center; Durham, N.C. (3977)

6017. Metabolism of the Methionine Carbon Chain.

Ronald C. Greene, Ph. D., Biochem., RI Serv.; Durham, N.C. (3980)

6018. Mechanism of the Mutagenic Action of Urethane.

Ronald C. Greene, Ph. D., Biochem., VAH; Stanfield Rogers, National Institutes of Health; Durham, N.C. (3981)

6019. Method for the Extraction, Separation From $Iodide^{131}$, Quantitation and Qualitation of $Iodo^{131}$ Amino Acids in Blood Following Tracer Doses of I^{131}.

James O. Wynn, M.D., Clin. Invest.; Durham, N.C. (3982)

6020. Investigation of Iodide Trapping in Athyreotic Sheep.

James O. Wynn, M.D., Clin. Invest.; Durham, N.C. (3983)

6021. Characterization of Kinetics of Iodine Trapping Mechanism Under Influence of T_3 in Normal Euthyroid and Certain Hyperthyroid Individuals.

James O. Wynn, M.D., Clin. Invest.; Durham, N.C. (3984)

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6022. Investigation of the Peripheral Degradation of Thyroid Hormones.

James O. Wynn, M.D., Clin. Invest.; Durham, N.C. (3985)

6023. Evaluation of the Accuracy of Gastric Analysis Using I-131 HSA.

David H. Johnston, M.D., Admitting Phys., Research Fellow; Burley H. McCraw, M.A., Physicist, RI Serv.; Durham, N.C. (3986)

6024. The Concentration of I^{131} in Gastric Contents.

Malcolm P. Tyer, M.D., Ch. GI Sec.; Durham, N.C. (3988)

6025. Triiodothyronine and Thyroxine in Serum.

William P. Deiss, Jr., M.D., Ch. Med. Serv., VAH; Patrick J. O'Shaughnessy, M.S., Med. Stud., Duke Univ.; Durham, N.C. (3989)

6026. Characterization of Serum I^{127} Iodoamino Acids.

James O. Wynn, M.D., Clin. Invest.; Durham, N.C. (9502)

6027. A Microsomal TPNH-Neotetrazolium Diaphorase.

Henry Kamin, Ph. D., Biochem. RI Serv., VAH; Charles H. Williams, B.S., Ph. D., Candidate Biochem., Duke Med. Center; Robert H. Gibbs, B.S., Med. Stud., Duke Med. Center; Durham, N.C. (9557)

6028. Intracellular Distribution of d-Amino Acid Oxidase.

Henry Kamin, Ph. D., Biochem. RI Serv., VAH; Marianne Howle, B.S., Graduate Student Biochem., Duke Med. Center; Durham, N.C. (9558)

6029. Enzymatic Basis for Sodium Concentration.

K. Schmidt-Nielson, Ph. D., Prof. Zool., Duke Med. Center; Henry Kamin, Ph. D., Biochem. RI Serv., VAH; Marianne Howle, B.S., Graduate Student Biochem., Duke Med. Center; Durham, N.C. (9559)

6030. Pulmonary Blood Volume Determined by a Radioactive Tracer Technique.

Arnold M. Weissler, M.D., Assoc. Med., Duke Med. Center; Burley H. McCraw, M.A., Asst. Ch. RI Serv., VAH; James V. Warren, M.D., Prof. Med., Univ. of Texas; Durham, N.C. (9560)

6031. The Study of Radioactive Iodinated Trypsin.

Joseph M. Miller, M.D., Ch. Surg. Serv.; Abraham A. Polachek, M.D., Ch. RI Serv.; Milton Ginsberg, M.D., Asst. Ch. Surg. Serv.; Fort Howard, Md. (4078)

6032. Determination of Intraperitoneal Hemorrhage by the Use of Radioactive Serum Albumin.

Norman Ende, M.D., Ch. Lab. Serv.; Menifee S. McDonald, M.D., Asst. Ch. Med. Serv.; Fresno, Calif. (4107)

6033. Investigation of Biliary Tract Obstruction Using I^{131} Labeled Rose Bengal.

Menifee S. McDonald, M.D., Asst. Ch. Med. Serv.; Fresno, Calif. (8832)

6034. Use of I^{131} Labeled Rose Bengal To Determine Collateral Portal Circulation.

Menifee S. McDonald, M.D., Asst. Ch. Med. Serv.; Fresno, Calif. (8833)

6035. The Development of a Large Volume Scintillation Counter for Total Body Radioactivity Determinations.

Theodore Fields, M.S., Radiophys.; Glenn Clayton, B.S., Electron. Scien.; Joseph Kenski, Lab. Electron. Mech.; Ervin Kaplan, M.D., Act Assoc. Dir. RI Serv.; Hines, Ill. (4336)

6036. A Photocell (CdS) and Scintillation Phosphor (NaI) Radiation Detector.

Theodore Fields, M.S., Radiophys.; Glenn Clayton, B.S., Electron. Scient.; Joseph Kenski, Lab. Electron. Mech.; Hines. Ill. (4337)

6037. The Therapy of Bone Producing Tumors, Primary and Metastatic, With P^{32}-Labeled Polymetaphosphate.

Ervin Kaplan, M.D., Act. Assoc. Dir. RI Serv.; William S. Walsh, M.D., Ch. Oncol. Sec. Surg. Serv.; Kermit R. Veggeberg, M.D., Resident Orth. Sec., Surg. Serv.; James M. Baehr, M.D., Resident Orth. Sec., Surg. Serv.; I. Gordon Fels, Ph. D., Biochem. Asst. Dir. RI Serv.; Hines, Ill. (10376)

6038. Design and Construction of a Highly Sensitive Scintillation Counter Capable of Locating Lost Surgical Sponges (Tagged With Infinitesimal Amounts of Radioactivity) During or After Surgery.

Theodore Fields, M.S., Physicist RI Serv.; Irwin W. Siegel, M.D., Resident Surg. Serv.; Ervin Kaplan, M.D., Act. Assoc. Dir. RI Serv.; Hines, Ill. (10377)

6039. Calibration of Pulse Height Analysis Equipment With Long-Life Standards.

Mary C. Morgan, M.D., Ch. RI Serv.; Jeannette P. Pittman, B.A., RI Clinic Tech., VAH; Jack R. Risser, Ph. D., Cons., VAH, Prof. Phys., The Rice Institute; Houston, Tex. (4467)

6040. Dental Autoradiography VII: Analysis of Extracted Teeth in Terms of Post-Eruptive Age.

Julian D. Boyd, M.D., Ch. Intermed. Serv.; Huntington, W. Va. (10883)

6041. Effect of Age and Sex on Thyroidal Secretion and on the Thyroxin Degradation and Turnover Rates.

Leo Oliner, M.D., Ch. RI Serv.; Indianapolis, Ind. (9139)

6042. The Relation of Essential Hypertension to Na^{24} Space and Total Exchangeable Sodium.

Walter M. Kirkendall, M.D., Cons., VAH, Ch. Cardiovasc. Lab., State Univ. of Iowa Coll. of Med.; Richard E. Peterson, M.D., Ch. RI Serv., VAH; Mark L. Armstrong, Phys. Med. Serv.; Iowa City, Iowa. (4895)

6043. Alterations in Total Exchangeable Na, K, Cl and Water in Various Stages of Cirrhosis.

Richard E. Peterson, M.D., Ch. RI Serv.; Bartis M. Kent, M.D., Clin., RI Serv.; James J. O'Toole, Ph. D., Biochem. RI Serv.; Iowa City, Iowa. (4897)

6044. The Effect of Surgical Trauma on Total Exchangeable Na, K, Cl and Water.

Richard E. Peterson, M.D., Ch. RI Serv.; Richard L. Lawton, M.D., Surg. Serv.; James J. O'Toole, Ph. D., Biochem. RI Serv.; Iowa City, Iowa. (4898)

6045. An Isotope Dilution Study of Total Body Electrolytes as Altered by Hypometabolic Treatment of Heart Disease.

Richard E. Peterson, M.D., Ch. RI Serv., VAH; Walter M. Kirkendall, M.D., Cons., VAH, Ch. Cardiovasc. Lab., State Univ. of Iowa Coll. of Med.; James J. O'Toole, Ph. D., Biochem. RI Serv., VAH; Iowa City, Iowa. (4900).

6046. Total Exchangeable Na, K, Cl and Water in Humans with Hyperthyroidism or Hypothyroidism.

Richard E. Peterson, M.D., Ch. RI Serv.; James J. O'Toole, Ph. D., Biochem. RI Serv., VAH; Walter M. Kirkendall, M.D., Cons., VAH, Ch. Cardiovasc. Lab., State Univ. of Iowa Coll. of Med.; Iowa City, Iowa. (4901)

6047. Total Exchangeable Na, K, Cl and Body Water in Normal Human Adults.

Richard E. Petersen, M.D., Ch. RI Serv.; James J. O'Toole, Ph. D., Biochem. RI Serv., VAH; Walter M. Kirkendall, M.D., Cons., VAH, Ch. Cardiovasc. Lab., State Univ. of Iowa Coll. of Med.; Iowa City, Iowa. (4902)

6048. A Study of Co^{58} Vitamin B_{12} Utilization in Diabetes Mellitus and Other Metabolic Disease.

Richard E. Peterson, M.D., Ch. RI Serv.; James J. O'Toole, Ph. D., Biochem. RI Serv.; B. M. Kent, M.D., Clin. RI Serv.; Iowa City, Iowa. (4903)

6049. The Effect of Bromine Ion on I^{131} Distribution in Man.

Richard E. Peterson, M.D., Ch. RI Serv.; Masa Yamomoto, M.D., RI Serv.; Iowa City, Iowa. (4904)

6050. The Effect of High NaCl Intake on Total Exchangeable Na, K and Cl in Man.

Walter M. Kirkendall, M.D., Cons. VAH, Ch. Cardiovasc. Lab., State Univ. of Iowa Coll. of Med.; Richard E. Peterson, M.D., Ch. RI Serv., VAH; James J. O'Toole, Ph. D., Biochem. RI Serv.; Iowa City, Iowa. (4905)

6051. Ion Exchange Separation of Na^{24}, K^{42} and Br^{82}.

James J. O'Toole, Ph. D., Biochem. RI Serv.; Eugene V. Weiner, Physicist. RI Serv.; Richard E. Peterson, M.D., Ch. RI Serv.; Iowa City, Iowa. (9593)

6052. Separation of Y-90 from Sr^{90} Fission Product.

Richard E. Peterson, M.D., Ch. RI Serv.; LeRoy Eyring, Ph. D., Chem.; Iowa City, Iowa. (9594)

6053. Experience with Isotopic Oleic Acid in Steatorrhea and Pancreatitis.

Arthur P. Klotz, M.D., Assoc. Prof. Med., Univ. of Kansas Med. Center; Robert Mosser, M.D., Resident, Med., VAH; Kansas City, Mo. (4980)

6054. Improvement of an Automatic Sample Changer for Well-Type Scintillation Counters.

David V. Cohn, Ph. D., Prin. Scien. RI and Research Lab.; William E. Carter, Research Asst.; Richard Anderson, E.E.; Kansas City, Mo. (9622)

6055. Adaptation of Emulsion Counting for Solid Samples.

Harold R. Hipp, M.D., Ch. Med. Serv.; Jacob Shapira, Ph. D., Prin. Scien. RI Serv.; Little Rock, Ark. (11004)

6056. Emulsion Counting in Liquid Scintillation Counter.

Jacob Shapira, Ph. D., Prin. Scientist, RI Serv.; William H. Perkins, M.D., Ch. RI Serv.; Little Rock, Ark. (11005)

6057. The *In Vivo* Effect of Thyroxine on Acetyl Phosphatase.

Issac Harary, Ph. D., Biochem.; Long Beach, Calif. (5277)

6058. The Role of Acetyl Phosphatase in Liver and Muscle.

Issac Harary, Ph. D., RI Serv.; Long Beach, Calif. (5278)

6059. Effect of Hypothalamic Lesions upon Various Criteria of Thyroid Function and Pituitary Thyrotropin Content in the Rat.

Warner H. Florsheim, Ph. D., Asst. Ch. (Scien.), RI Serv., VAH; Karl M. Knigge, Ph. D., Asst. Prof. Anat., Univ. of California at Los Angeles Med. Sch.; Long Beach, Calif. (5280)

6060. Purification and Properties of Liver and Muscle Acetyl Phosphatase.

I. Harary, Ph. D., Biochem.; Long Beach, Calif. (5283)

6061. Inter-Relations Between Pituitary Gonadotropin and Thyrotropin Secretion Rates.

Warner H. Florsheim, Ph. D., Asst. Ch. (Scien.), RI Serv.; Ralph E. Bodfish, M.D., Phys.-in-Charge, RI Serv.; Long Beach, Calif. (5286)

6062. Bacterial and Mammalian Fermentation of Nicotinic Acids.

Isaac Harary, Ph. D., Biochem., RI Serv.; Long Beach, Calif. (5290)

6063. The Design and Construction of a Simple Practical Scintillation Counter for Liquid Specimens.

Nathan B. Fruchter, A.A., Instrument Maker, RI Serv.; Long Beach, Calif. (10789)

6064. Production of Achondroplasia by Radiosulfate Injected into Newborn Rats.

Raymond G. Gottschalk, M.D., Ch. Lab. Serv.; Herman Litwer, M.D., Ch. Radiol. Serv.; Henry H. Grantham, Jr., B.S., Med. Biol. Tech.; Martinsburg, W. Va. (5926)

6065. Wound Healing with C^{14}-tagged Ascorbic Acid.

Arthur F. Abt, M.D., Ch. RI Serv.; Susanne L. von Schuching, Ph. D., Super. Biochem. Asst. Ch. (Scien.) RI Serv., VAC; Joseph H. Roe, Ph. D., Cons. RI Serv., VAC, Prof. and Exec. Officer Dept. Biochem., George Washington Univ. Sch. of Med.; Martinsburg, W. Va. (5936)

6066. Mucoprotein Content of Tissues in Wound Healing.

Arthur F. Abt, M.D., Ch. RI Serv.; Susanne L. von Schuching, Ph. D., Super. Biochem., Asst. Ch. (Scien.), RI Serv., VAC; Joseph H. Roe, Ph. D., Cons. RI Serv., VAC, Prof. and Exec. Officer Dept. Biochem., George Washington Univ. Sch. of Med.; Martinsburg, W. Va. (5937)

6067. Autoradiographic Technique.

Arthur F. Abt, M.D., Ch. RI Serv.; Susanne L. von Schuching, Ph. D., Super. Biochem., Asst. Ch. (Scien.), RI Serv.; Martinsburg, W. Va. (5938)

6068. Goitrogenic Substances to be Doubly Labeled with C-14 and S-35.

Susanne L. von Schuching, Ph. D., Super. Biochem., Asst. Ch. (Scien.), RI Serv.; Arthur F. Abt, M.D., Ch. RI Serv.; Martinsburg, W. Va. (5939)

6069. Study of Sulfur^{35}-containing Compounds in Connective Tissue.

Arthur F. Abt, M.D., Ch. RI Serv.; Susanne L. von Schuching, Ph. D., Super. Biochem., Asst. Ch. (Scien.), RI Serv.; Martinsburg, W. Va. (5940)

6070. Determination of Cardiac Output With RISA: Comparison With Normal and Cardiac Patients at Different Age Levels.

Percy E. Schools, Jr., M.D., Phys. Med. Serv.; Arthur F. Abt, M.D., Ch. RI Serv.; Susanne L. von Schuching, Ph. D., Super. Biochem., Asst. Ch. (Scien.) RI Serv.; Martinsburg, W. Va. (5941)

6071. Tracer Studies and Metabolism of L-ascorbic-1-C^{14} Acid.

Susanne L. von Schuching, Ph. D., Super. Biochm., Asst. Ch. (Scien.) RI Serv., VAC; Joseph H. Roe, Ph. D., Cons. RI Serv., VAC, Prof. and Exec. Officer Dept. Biochem., George Washington Univ. Sch. of Med.; Arthur F. Abt, M.D., Ch. RI Serv., VAC; Martinsburg, W. Va. (5942)

6072. Tracer Studies and Metabolism of L-ascorbic-6-C^{14} Acid.

Susanne L. von Schuching, Ph. D., Super. Biochem., Asst. Ch. (Scien.) RI Serv., VAC; Joseph H. Roe, Ph. D., Cons. RI Serv., VAC, Prof. and Exec. Officer Dept. Biochem., George Washington Univ. Sch. of Med.; Arthur F. Abt, M.D., Ch. RI Serv., VAC; Martinsburg, W. Va. (5943)

6073. Role of Ascorbic Acid in Bone Healing.

Arthur F. Abt, M.D., Ch. RI Serv.; Susanne L. von Schuching, Ph. D., Super. Biochem., Asst. Ch. (Scien.) RI Serv., VAC; Joseph H. Roe, Ph. D., Cons. RI Serv., VAC, Prof. and Exec. Officer Dept. Biochem., George Washington Univ. Sch. of Med.; Martinsburg, W. Va. (5944)

6074. C^{14}-tagged Lipid Studies. Comparison of C^{14}-triolein, etc., With I^{131}-labelled Triolein, etc., in Humans.

Arthur F. Abt, M.D., Ch. RI Serv.; Leon Swell, Ph. D., Ch. Biochem. Gen. Med. Research; Susanne L. von Schuching, Ph. D., Super. Biochem., Asst. Ch. (Scien.) RI Serv.; Martinsburg, W. Va. (10832)

6075. Wound Healing in Aged Guinea Pigs to Determine the Effects of Operation on Ascorbic Acid Tissue Levels and Metabolic Studies.

Arthur F. Abt, M.D., Ch. RI Serv.; Susanne L. von Schuching, Ph. D., Super. Biochem., Asst. Ch. (Scien.) RI Serv.; Martinsburg, W. Va. (10833)

6076. Synthesis of L-ascorbic-2-C^{14} Acid.

Susanne L. von Schuching, Ph. D., Super. Biochem., Asst. Ch. (Scien.) RI Serv.; Arthur F. Abt, M.D., Ch. RI Serv.; Martinsburg, W. Va. (10834)

6077. Synthesis of L-ascorbic-1, 2-C^{14} Acid.

Susanne L. von Schuching, Ph. D., Super. Biochem., Asst. Ch. (Scien.) RI Serv.; Arthur F. Abt, M.D., Ch. RI Serv.; Martinsburg, W. Va. (10835)

6078. Chemical Distribution of Ascorbic Acid in Human Skin Scars and Distant Tissue.

Arthur F. Abt., M.D., Ch. RI Serv.; Susanne L. von Schuching, Ph. D., Super. Biochem., Asst Ch. (Scien.) RI Serv.; Martinsburg, W. Va. (10836)

6079. Autoradiographic Studies of L-ascorbic-1-C^{14} Acid to Localize Radioactivity in Scar and Distant Tissue and Intracellular Distribution.

Arthur F. Abt, M.D., Ch. RI Serv.; Susanne L. von Schuching, Ph. D., Super. Biochem., Asst. Ch. (Scien.) RI Serv.; Martinsburg, W. Va. (10837)

6080. Studies of $C^{14}O_2$ in Homogenates in Various Tissues and Blood to Determine Degradation of Radioactive Ascorbic Acid.

Arthur F. Abt, M.D., Ch. RI Serv.; Susanne L. von Schuching, Ph. D., Super. Biochem., Asst. Ch. (Scien.) RI Serv.; Martinsburg, W. Va. (10838)

6081. Chemical Ascorbic Acid Content of Fractionated Wound Tissue and Carrageenin Granuloma at Varying Intervals Following Operation and Granuloma Production.

Arthur F. Abt, M.D., Ch. RI Serv.; Susanne L. von Schuching, Ph. D., Super. Biochem., Asst. Ch. (Scien.) RI Serv.; Martinsburg, W. Va. (10839)

6082. Timing of Transfer of Flaps in Reconstructive Surgery Using Sodium[22].

Louis K. Countryman, M.D., Resident, Gen. Surg.; Arthur F. Abt, M.D., Ch. RI Serv., VAC; Maxine Schurter, M.D., Attend. VAC, Clin. Instr. Surg., George Washington Univ. Sch. of Med.; Isabella Harrison, M.D., Ch. Surg. Serv., VAC; Susanne L. von Schuching, Ph. D., Super. Biochem., Asst. Ch. (Scien.) RI Serv.; Martinsburg, W. Va. (10840)

6083. Kidney Function Tests.

Vincent A. Balkus, M.D., Ch. Urol. Serv.; Arthur F. Abt, M.D., Ch. RI Serv.; Susanne L. von Schuching, Ph. D., Super. Biochem., Asst. Ch. (Scien.) RI Serv.; Martinsburg, W. Va. (10841)

6084. Comparison of Influence of Metahexamide and Insulin on Blood Entry and Removal Rates of C_{14} Glucose in the Rat.

Doris M. Hilker, Ph. D.; Joy R. Hopper, B.S., Biochem., Geriatrics Research Lab.; Thomas H. McGavack, M.D., Ch. Intermed. Serv.; Martinsburg, W. Va. (10843)

6085. Studies with Insulin-I^{131}. Isolation Procedures.

Norman D. Lee, Ph. D.; Prin. Scien., RI Serv.; Memphis, Tenn. (6135)

6086. Cardiovascular and Biochemical Changes in Long-Term Increased Dietary Sodium Chloride: Effect of Various Levels on Littermate Male Beagles.

John B. Youmans, M.D., Cons. VAH, Dean and Prof. Med., Vanderbilt Univ. Sch. of Med.; Walter R. Early, Biol. RI Serv., VAH; Nashville, Tenn. (5410)

6087. Medical Application of Beta and Gamma Ray Scintillation Spectrometry.

George R. Meneely, M.D., Cons. RI Serv., VAH, Assoc. Prof. Med., Vanderbilt Univ. Sch of Med.; Robert G. Dent, Electronics Tech., RI Serv., VAH; Nashville, Tenn. (9989)

6088. I-131 Labelled Diodrast Uptake and Excretion by the Kidney in Hypertensive Disease.

Emanuel H. Bresler, M.D., Ch. RI Serv.; Charles P. Oderr, M.D., Ch. Radiol. Serv.; New Orleans, La. (6435)

6089. The Effect of Diuretic Drugs on Blood Volume During Maximum Diuresis.

Emanuel H. Bresler, M.D., Ch. RI Serv.; Lionel L. Cazenavette, M.A., Asst. Ch. RI Serv.; George W. Beamon, B.S., Phys. Science Tech., RI Serv.; New Orleans, La. (6436)

6090. Analytical Method for Determining Phosphocitrate in Biochemical Material.

Joe Meyer, Ph. D., Prin. Scien., RI Serv.; New Orleans, La. (6437)

6091. The Mechanism of Cardiac Glycogen Synthesis.

Joe Meyer, Ph. D., Prin. Scien., RI Serv.; New Orleans, La. (6438)

6092. The Mechanism of Cardiac Glycogen Synthesis in Ketosis.

Joe Meyer, Ph. D., Prin. Scien., RI Serv.; New Orleans, La. (6439)

6093. The Role of Citrate in Bone Metabolism.

Joe Meyer, Ph. D., Prin. Scien., RI Serv.; New Orleans, La. (6441)

6094. Automatic Recording of Pulse Height Analyzer Data.

Lionel L. Cazenavette, M.A., Asst. Ch. RI Serv. (Physicist); New Orleans, La. (11105)

6095. Low Frequency Pulse Generator.

Lionel L. Cazenavette, M.A., Asst. Ch. RI Serv. (Physicist); New Orleans, La. (11106)

6096. Placental Transfer of I^{131} Labeled Proteins.

J. Dancis, M.D., Assoc. Prof. Pediatrics, New York Univ. Coll. of Med.; M. Oratz, Ph. D., Asst. Ch. RI Serv., VAH; J. Lind, M.D.; New York, N.Y. (6565)

6097. The Participation of the Epsilon NH_2 Group of Lysine in Peptide Linkage in Collagen.

M. Oratz, Ph. D., Asst. Ch. RI Serv.; New York, N.Y. (11029)

6098. Determination of Magnesium Binding Sites of Serum Protein.

William O. Smith, M.D., Asst. Ch. RI Serv.; Philip C. Johnson, M.D., Ch. RI Serv.; Oklahoma City, Okla. (6944)

6099. Erythrocyte Uptake of Magnesium^{28}.

William O. Smith, M.D., Asst. Ch. RI Serv.; Philip C. Johnson, M.D., Ch. RI Serv.; Theda Driscoll, Tech.; Oklahoma City, Okla. (6945)

6100. Calcium-45 Binding by Human Pre-Albumin.

Philip C. Johnson, M.D., Ch. RI Serv.; William O. Smith, M.D., Asst. Ch. RI Serv.; Beulah Wulff, Tech.; Oklahoma City, Okla. (10063)

6101. Thermal Dependency of Photomultiplier Tuber.

Richard E. Ogborn, M.D., Ch. RI Serv.; Alan J. Blotcky, B.S., Asst. Ch. RI Serv.; William Burgin, Jr., B.S., Phys. Science Tech.; Omaha, Nebr. (6787)

6102. Transistorized Background Suppressor for Scintillation Counting.

Arthur L. Dunn, Ph. D., Asst. Ch. Scien. RI Serv.; Alan J. Blotcky, B.S., Asst. Ch. RI Serv.; Richard E. Ogborn, M.D., Ch. RI Serv.; Omaha, Nebr. (6972)

6103. Nuclear Reactor Technology in the Medical Sciences.

Richard E. Ogborn, M.D., Ch. RI Serv.; Omaha, Nebr. (10227)

6104. Studies on a Rapid Method for the Determination of Lipid Bound Radioiodine in Blood.

Herbert D. Strauss, A.B., Biochem. RI Serv.; Harriet K. Richards, B.S., Biochem. Med. Research Lab.; Philadelphia, Pa. (7138)

6105. An Investigation of the Diagnostic Uses of I^{131} Labeled Fat.

George T. Wohl, M.D., Ch. Radiol. and Ch. RI Serv.; Bernard H. Pastor, M.D., Ch. Cardiovasc. Sect.; Ralph M. Myerson, M.D., Asst. Ch. Med. Serv.; Edward Dickstein, M.D., Resident Med. Serv.; William J. Snape, M.D., Cons. Med.; Herbert D. Strauss, B.S., Biochem. RI Serv.; Harriet K. Richards, B.S., Biochem., Med. Research Lab.; Philadelphia, Pa. (7139)

6106. Cholografin Tagged with I^{131} as a Test of Hepatic Function.

Gustaf E. Engstrom, M.D., Resident Med. Serv.; George T. Wohl, M.D., Ch. Radiol. Serv. and Ch. RI Serv.; Joseph L. Rabinowitz, Ph. D., Biochem. RI Serv.; Philadelphia, Pa. (8760)

6107. Lipogenesis.

Joseph L. Rabinowitz, Ph. D., Prin. Scien. RI Serv.; Herbert D. Strauss, B.S., Biochem. RI Serv.; Philadelphia, Pa. (8761)

6108. Isotope Effects in Enzyme Systems.

Joseph L. Rabinowitz, Ph. D., Prin. Scien. RI Serv.; Herbert D. Strauss, B.S., Biochem. RI Serv.; Philadelphia, Pa. (8762)

6109. Biochemical Studies in Animal Muscular Dystrophy.

Joseph L. Rabinowitz, Ph. D., Prin. Scien. RI Serv.; Herbert D. Strauss, B.S., Biochem. RI Serv.; Philadelphia, Pa. (8763)

6110. Direct Measurement of Splenic Concentration of Tagged Red Cells in the Study of Anemias.

Ralph M. Myerson, M.D., Asst. Ch. Med. Serv.; George T. Wohl, M.D., Ch. Radiol. Serv.; Arlyne T. Shockman, M.D., Resident, Radiol. Serv.; Joseph L. Rabinowitz, Ph. D., Dir. Research and Develop., RI Serv.; Philadelphia, Pa. (8948)

6111. Metabolism of Labelled Fat in Patients With Different Terminal Conditions.

George T. Wohl, M.D., Ch. Radiol. Serv.; Ralph M. Myerson, M.D., Asst. Ch. Med. Serv.; Joseph L. Rabinowitz, Ph. D., Dir. Research and Develop., RI Serv.; Philadelphia, Pa. (8949)

6112. Distribution and Excretion of Carrier-Free Vanadium^{48} in the Rabbit.

Clyde M. Williams, M.D., Biochem., RI Serv.; Pittsburgh (Univ. Dr.), Pa. (11080)

6113. The Use of Radioactive Iodine in the Differentiation of Hypothyroid From Euthyroid Individuals.

Charles D. West, M.D., Asst. Dir. Prof. Serv. for Research; Salt Lake City, Utah. (7378)

6114. The Synthesis of C^{14} Ring-Labelled Thyroxine and a Study of Its Metabolism.

Charles D. West, M.D., Asst. Dir. Prof. Serv. for Research; Salt Lake City, Utah. (7379)

6115. The Metabolism of C^{14} Labelled Steroids in Patients With Mental and Other Diseases.

Charles D. West, M.D., Asst. Dir. Prof. Serv. for Research, VAH; Eugene L. Bliss, M.D., Attend. Psychiat., VAH, Assoc. Prof. Psychiat., Univ. of Utah; Salt Lake City, Utah. (7380)

6116. The Study of Hepatic Excretory Mechanisms With Radioactive Rose Bengal.

Edwin Englert, Jr., M.D., Asst. Ch. Med. Serv.; Salt Lake City, Utah. (10526)

6117. An Investigation of Thyroid Function in Mental Disease.

Charles D. West, M.D., Asst. Dir. Prof. Serv. for Research; Salt Lake City, Utah. (10527)

6118. The Detection of Malabsorption Syndromes.

Edwin Englert, Jr., M.D., Asst. Ch. Med. Serv.; Salt Lake City, Utah. (10530)

6119. The Effect of Orinase(R) and Insulin on the Disappearance Rate of C^{14} Labeled Glucose From the Plasma and on the Rate of Glucose Oxidation.

Gilbert L. Searle, Ph. D., Ch. Scien.; Glenn E. Mortimore, M.D., Resident Med. Serv.; Robert Buckley, M.D., Resident Med. Serv.; Wm. A. Reilly, M.D., Ch. RI Serv.; San Francisco, Calif. (7834)

6120. The Study of Metallic Corrosion of Radioactive Orthopedic Plates Implanted in Animals.

F. Jergesen, M.D., Orth. Cons. VAH; K. G. Scott, Ph. D., RI Cons. VAH.; Wm. A. Reilly, M.D., Ch. RI Serv.; San Francisco, Calif. (7835)

6121. Directional Counters and Tumor Localization.

Robert R. Newell, M.D., Cons. RI Serv.; Wm. A. Reilly, M.D., Ch. RI Serv.; San Francisco, Calif. (7836)

6122. Plasma I^{131} Iodide in Malignancy.

Kenneth G. Scott, Ph. D., Cons. RI Serv., VAH, Prof. Exper. Radiol., Univ. of California Med. Cen.; William A. Reilly, M.D., Ch. RI Serv., VAH; Gilbert L. Searle, Ph. D., Ch. Scien. RI Serv.; San Francisco, Calif. (7837)

6123. Turnover in Muscle of I^{131} Tagged Thyroxine, Triiodothyronine, Monoiodotyrosine, Diiodotyrosine and Iodide.

Wm. A. Reilly, M.D., Ch. RI Serv., VAH; Kenneth G. Scott, Ph. D., Cons. RI Serv., VAH, Prof. Exper. Radiol., Univ of California Med. Cen.; Charles Louie, A.B., Phys. Science Aid (Chem.), VAH; San Francisco, Calif. (7838)

6124. Measurement of Liver Function Using AG^{111}.

Wm. A. Reilly, M.D., Ch. RI Serv., VAH; Kenneth G. Scott, Ph. D., Cons. RI Serv., VAH, Prof. Exper. Radiol., Univ. of California Sch. Med.; Helen I. Johnson, B.S., Med. Tech. RI Serv., VAH; Gilbert L. Searle, Ph. D., Ch. Scien. RI Serv.; San Francisco, Calif. (7839)

6125. Types of Human Protein Bound Iodine in Thyroid Disease—Studies by Electrophoresis, Ion Exchange and Starch Columns.

Wm. A. Reilly, M.D., Ch. RI Serv.; Gilbert L. Searle, Ph. D., Ch. Scien. RI Serv., VAH; Kenneth G. Scott, Ph. D., Cons. RI Serv., VAH, Dir. RI Cen., Univ. of California Sch. Med.; San Francisco, Calif. (7840)

6126. Concentration and Analysis of Urinary Iodide; Correlation With Thyroid Function.

Wm. A. Reilly, M.D., Ch. RI Serv.; Gilbert L. Searle, Ph. D., Ch. Scien., VAH; Kenneth G. Scott, Ph. D., Cons. RI Serv., VAH, Dir. Radioact. Cen.; James N. Castle, A.B., Biochem. RI Serv., VAH; San Francisco, Calif. (7841)

6127. Circulation in the Head of the Pathological Femur Using Radioisotopes.

F. Jergesen, M.D., Orth. Cons. VAH; K. G. Scott, Ph. D., RI Cons. VAH, Dir. Radioact. Center, Univ. California; J. Sluis, M.D., Clin. Instr. Orth., VAH; Wm. A. Reilly, M.D., Ch. RI Serv.; San Francisco, Calif. (7842)

6128. Certain Aspects of Iron Metabolism and Erythropoesis in Chronic Pulmonary Disease.

Armand P. Gelpi, M.D., Hemat.; Gilbert L. Searle, Ph. D., Ch. Scien. RI Serv.; Wm. A. Reilly, M.D., Ch. RI Serv.; James N. Castle, A.B., Biochem. RI Serv.; San Francisco, Calif. (7843)

6129. Effects of Insulin and Tolbutamide on the Turnover and Oxidation of Glucose.

Gilbert L. Searle, Ph. D., Ch. Scien. RI Serv.; Robert Palmer, M.D., Resident Med. Serv.; Wm. A. Reilly, M.D., Ch. RI Serv.; San Francisco, Calif. (11136)

6130. Influence of "Natural" Radioactivity on Growth and Form.

Rex L. Huff, M.D., Ch. RI Serv.; Wayne A. Crockett, M.D., Clin. Invest.; Daniel Parrish, B.S., Physicist; Paul Kerkof, B.S., Biochem.; Seattle, Wash. (7657)

6131. Experiments With and Interpretation of the Diodrast Renogram.

Stanley Haukeness, M.D., Resident; Wayne A. Crockett, M.D., Clin. Invest.; Daniel Parrish, B.S., Physicist; Seattle, Wash. (7660)

6132. Autoradiographic Studies of the Potassium Distribution in Leukemic White Cells.

Donald Manley, M.A., Physicist, VAH; Wayne A. Crockett, M.D., NIH Fellow, Research Fellow and Asst. Med., Univ. of Washington; Paul Kerkof, B.S., Ch. Lab. Tech., Univ. Washington; Seattle, Wash. (7661)

6133. Metabolic and Genetic Effects of Reduced Background Radiation.

Robert S. Leighton, M.D., Ch. Radiol. Serv.; Daniel G. Parrish, Asst. Ch. RI Serv.; Norman R. Eaton, Ph. D., Biochem.; Seattle, Wash. (9240)

6134. Instrumentation and Data Analysis.

Daniel Parrish, B.S., Physicist; Seattle, Wash. (7670)

6135. The Blood Volume of the Guinea Pig as Determined With Cr-51 Labelled Red Cells and Corrected for Total Body Fat.

William V. C. Leahy, Ph. D., Phys., RI Serv.; Thomas F. McNickle, Biol., RI Serv.; Bernard W. Janicki, M.S., Bact. (Med.), TB Research Lab.; Washington, D.C (7996)

6136. The Role of the Leucocyte in the Localization of Passively Administered Radioactive Homologous Globulins.

Bernard W. Janicki, Bact. TB Research Unit; William V. C. Leahy, Ph. D., Phy. RI Serv.; Thomas F. McNickle, Tech. RI Serv.; Washington, D.C. (7999)

6137. The Effect of Particle Radiation (B^-) Upon the Dehydrogenase System of the Isolated White Blood Cell.

William V. C. Leahy, Ph. D., Phy. RI Serv.; Thomas F. McNickle, Tech. RI Serv.; Washington, D.C. (8000)

6138. Thyroid Hormone Turnover Studies in the Guinea Pig—The Effect of Liver Damage.

William V. C. Leahy, Ph. D., Phy. RI Serv.; Thomas F. McNickle, Biol., RI Serv.; Washington, D.C. (10607)

6139. An Improved Method for the Simultaneous Assay of Carbon-14 and Total Carbon.

Donald L. Buchanan, M.D., Ch. RI Serv.; Betty J. Corcoran, Biochem. RI Serv.; West Haven, Conn. (8138)

6140. Water Elution Chromatography of Amino Acids on Ion Exchange Resins.

Donald L. Buchanan, M.D., Ch. RI Serv.; Roman T. Markiw, M.S., Biochem. RI Serv.; West Haven, Conn. (9877)

6141. Silicone Embolism During Cardiopulmonary Bypass with Bubble Oxygenators.

A. Stephen Close, M.D., Clin. Invest.; Robert C. Meade, M.D., M.S., Ch. RI Serv.; Wood, Wis. (8320)

6142. The Correlation Between Vitamin A Tolerance Test and Radioactive Triolein and Oleic Acid Fat Absorption.

Robert C. Meade, M.D., M.S., Ch. RI Serv.; Margaret M. Kaser, Ph. D., Biochem.; Wood, Wis. (8321)

6143. P^{32} Uptake in Evaluation of Solitary Nodules of Thyroid.

Robert C. Meade, M.D., M.S., Ch. RI Serv.; Russell M. Maynard, M.D., Ch. Lab. Serv.; Wood, Wis. (8322)

6144. The Effect of Cobalt Therapy on Iron Turnover in the Anemia of Chronic Azotemia.

Bertram H. Dessel, M.D., Ch. Hemat. Sec.; Robert C. Meade, M.D., M.S., Ch. RI Serv.; Wood, Wis. (8323)

6145. The Red Blood Cell Survival in the Anemia of Rheumatoid Disease.

Mark W. Garry, M.D., Ch. Med. Serv.; Robert C. Meade, M.D., M.S., Ch. RI Serv.; Wood, Wis. (8324)

6146. A Comparison of Insulin and Tolbutamide Pre-treatment Prior to Alloxan Induced Diabetes.

Robert C. Meade, M.D., M.S., Ch. RI Serv., VAC; Howard M. Klitgaard, Ph. D., Cons. RI Serv., VAC, Asst. Prof. Phy., Marquette Univ.; Wood, Wis. (8325)

6147. Study of Impedance Angle in Relation to Thyroid Function and Various Diseases.

Robert C. Meade, M.D., M.S., Ch. RI Serv., VAC; Howard M. Klitgaard, Ph. D., Cons. RI Serv. VAC, Asst. Prof. Phy., Marquette Univ.; Wood, Wis. (8326)

6148. A Difference Between *In Vitro* and *In Vivo* Bound Thyroxine.

Robert C. Meade, M.D., M.S., Ch. RI Serv.; Jacqueline Owenby, M.T., Med. Tech. RI Serv.; Wood, Wis. (8327)

6149. An Improved Method of Protein Bound Iodine Determination.

Robert C. Meade, M.D., M.S., Ch. RI Serv., VAC; Howard M. Klitgaard, Ph. D., Cons. RI Serv., VAC, Asst. Prof. Phy., Marquette Univ.; Jacqueline Owenby, M.T., RI Serv., VAC; Wood, Wis. (8328)

6150. Thyroid Uptake and Plasma Levels in Rats after C^{14}-Tyrosine Injection.

Howard M. Klitgaard, Ph. D., Cons. RI Serv., VAC, Asst. Prof. Phy., Marquette Univ.; Robert C. Meade, M.D., M.S., Ch. RI Serv., VAC; Wood, Wis. (8329)

6151. A Comparison of Tolbutamide, Chlorpropamide and Insulin Pre-treatment Prior to Alloxan Induced Diabetes.

Robert C. Meade, M.D., M.S., Ch. RI Serv., VAC; Howard M. Klitgaard, Ph. D., Cons RI Serv., VAC, Asst. Prof. Phy., Marquette Univ.; Wood, Wis. (9769)

6152. Study of Anorganic Bone Metabolism.

Richard W. Moss, D.D.S., Dent. Oral Surg.; Robert C. Meade, M.D., M.S., Ch. RI Serv.; Wood, Wis. (9770)

6153. A Comparison of Fat Absorption in Juvenile and Adult Obese Diabetics.

Robert C. Meade, M.D., M.S., Ch. RI Serv.; Wood, Wis. (9771)

6154. Possible Sources of Error in Erythrocyte Binding of I^{131}-labelled Triiodothyronine.

Robert C. Meade, M.D., M.S., Ch. RI Serv.; Wood, Wis. (9772)

6155. The Inhibitory Action of Vasopressor Drugs on the Diabetogenic Activity of Alloxan in Rats.

Robert C. Meade, M.D., M.S., Ch. RI Serv., VAC; Howard M. Klitgaard, Ph. D., Cons. RI Serv., VAC, Asst. Prof. Phy., Marquette Univ.; Wood, Wis. (9773)

6156. Insulin Antibodies in Diabetes Mellitus.

Robert C. Meade, M.D., M.S., Ch. RI Serv., VAC; Howard M. Klitgaard, Ph. D., Cons. RI Serv., VAC, Asst. Prof. Phy., Marquette Univ.; Wood, Wis. 9774)

6157. Investigation of the Possible Value of the Hemostatic Agent—Kutapressin, in Transurethral Resection of the Prostate.

Chas. L. Weisenthal, M.D., Resident Urol.; Robert C. Meade, M.D., M.S., Ch. RI Serv., VAC; Robert S. Irvin, M.D., Cons. Urol., VAC, Clin. Prof. and Head Div. Urol.; Randle E. Pollard, M.D., Urol.; Wood, Wis. (9775)

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Washington:
  American Lake 266–268
  Seattle 165, 228–230, 261, 363, 364, 407, 408, 478–480, 513, 514, 549, 576, 585, 598, 622, 637, 658, 659
  Walla Walla 105, 638
West Virginia:
  Clarksburg 432
  Huntington 115, 146, 199, 248, 308, 495, 446, 502, 537, 557, 558, 582, 593, 610, 629, 630, 649
  Martinsburg 93, 120, 155, 212, 213, 328, 400, 456–458, 505, 561, 574, 594, 611, 631, 632, 652–654
Wisconsin:
  Madison 90–93, 119, 120, 210–212, 326, 327, 454–456, 505
  Tomah 367, 368, 410
  Wood 106, 107, 127, 128, 167, 236, 264, 378, 379, 412, 489, 490, 516, 517, 527, 528, 550, 564, 585, 599, 600, 614, 621, 639, 659–661
Wyoming: Sheridan 366, 637

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DOCUMENTS EXPEDITING PROJECT

[No. 242]

COMMITTEE ON VETERANS' AFFAIRS, HOUSE OF REPRESENTATIVES

VETERANS' ADMINISTRATION,
OFFICE OF THE ADMINISTRATOR OF VETERANS' AFFAIRS,
Washington, D.C., May 6, 1960.

Hon. OLIN E. TEAGUE,
House of Representatives, Washington, D.C.

MY DEAR MR. TEAGUE: I am pleased to submit the following comments concerning our construction program. As you know, we have planned a 12-year construction program which we estimate will require $900 million in appropriated funds. In the first years of this program our primary emphasis must be on replacement hospitals which have long been needed. Some of these hospitals, such as Nashville, Washington, Cleveland, and Martinez, have been planned for many years and have been subject to various delays.

A second phase of our construction planning has been to meet the urgent need for beds in certain geographic areas. This is true in Florida where we plan construction at Coral Gables, Bay Pines, and Lake City. The Atlanta area is another area of heavy patient demand. We have future plans to meet the need for beds in St. Louis, Mo., and Los Angeles, Calif.

The available funds for modernizing VA hospitals are rather limited in the first few years of our 12-year program. This results from the need to complete the planned replacement hospitals and from the bed needs in geographical areas which I have described above. We are, however, endeavoring to accomplish as much as possible with the available funds and to complete certain phases of modernization projects which were planned earlier.

In the future we will also have to meet the problem of modernizing our large NP hospitals, such as those in the New York metropolitan area. As your committee knows, both Northport and Lyons are in need of modernization. Northport, however, is a good example of one problem we face in modernization. We estimate our present standards would result in a loss on modernization of 800 of the 2,400 beds. It therefore may be desirable to build a replacement NP hospital in the New York area prior to modernizing Northport.

We are also rather hard pressed at the present time in developing the hospital requirements to keep our present planned program on schedule. Our hospital requirements group must also do the master planning for the whole system and develop meaningful criteria for the various functional areas of a modern hospital.

I think from the foregoing it is evident that construction for our hospital system must be planned on a nationwide basis and priorities must be established here in central office. I feel, as most of the area medical directors have stated, that we should, and do, consult with them on renovation and modernization projects. We also need their advice on patient bed demands and the physical condition of our hospitals. These data play an important role in deciding on the location and type of construction for new hospitals.

I feel, because of the foregoing, that a comparison of our nationwide plans and the priorities recommended by each area medical director, as contained in your committee report, can be misleading. However, in accordance with the telephone conversation on April 11, 1960, between Dr. Arnett and Mr. Patterson of your staff, we are furnishing the attached programing information.

I would be pleased to have members of my staff discuss this matter in more detail with your committee or your staff, if you so desire.

Sincerely,

A. H. MONK,
Assistant Deputy Administrator
(For and in the absence of Sumner G. Whittier, Administrator).

BOSTON AREA

Name of installation	Area priority	Programed through 1963 (fiscal year)
Northport, N.Y	1	Not programed.
Bronx, N.Y	2	Substantially completed.
Togus, Maine	3	Not programed.
Bath, N.Y., VA Center	4	Phase V, fiscal year 1962.
Northampton, Mass	5	Not programed.
Canandaigua, N.Y	6	Do.
Rutland Heights, Mass	7	Do.

TRENTON AREA

Coatesville, Pa	1	Phase V, fiscal year 1963.
Perry Point, Md	2	Phase III, fiscal year 1963.
Kecoughtan, Va	3	Phase V, fiscal year 1963.
Aspinwall, Pa	4	Not programed.
Washington, D.C	5	Replacement, 1957–61.
Fort Howard, Md	6	Not programed.
Huntington, W. Va	7	Do.
Lyons, N.J	8	Do.
Roanoke, Va	9	Do.
Martinsburg, W. Va	10	Do.
Richmond, Va	11	Do.
San Juan, P.R	12	Do.

ATLANTA AREA

Augusta, Ga	1	Not programed.
Mountain Home, Tenn	2	Phase III, fiscal year 1960.
Biloxi, Miss	3	Phase IV, fiscal year 1961.
Biloxi (Gulfport division), Miss	3	Phase IV, fiscal year 1960.
Oteen, N.C	4	Phase I, fiscal years 1960–62.
Bay Pines, Fla	5	Replacement, fiscal years 1959–63.
Lake City, Fla	6	Phase IV, fiscal years 1962–63.
Dublin, Ga	7	Not programed.
Columbia, S.C	8	Phase III, fiscal years 1961–62.
Tuscaloosa, Ala	9	Not programed.
Murfreesboro, Tenn	10	Phase II, fiscal year 1959.
Tuskegee, Ala	11	Phase V, fiscal year 1963.
Montgomery, Ala	12	Not programed.
Fayetteville, N.C	13	Do.
Salisbury, N.C	14	Do.
Birmingham, Ala	15	Do.
Durham, N.C	16	Do.
Thomasville, Ga	17	Do.

REPLACEMENT IN PROGRESS OR UNDER CONSTRUCTION

Atlanta, Ga		Replacement, fiscal years 1962–63.
Nashville, Tenn		Replacement, fiscal years 1957–58.
Jackson, Miss		Do.
Memphis, Tenn		Replacement, fiscal years 1959–64.
Coral Gables, Fla		Replacement, fiscal years 1959–63.

ST. LOUIS AREA

Name of installation	Area priority	Programed through 1963 (fiscal year)
Albuquerque, N. Mex	1	Not programed.
Fort Bayard, N. Mex	2	Do.
Wadsworth, Kans., hospital	3	Do.
Wadsworth, Kans., domiciliary	3	Do.
Waco, Tex	4	Do.
North Little Rock, Ark	5	Do.
Muskogee, Okla	6	Do.
Wichita, Kans	7	Do.
Excelsior Springs, Mo	8	Do.
Fort Lyon, Colo	9	Do.
Alexandria, La	10	Substantially completed.
Fayetteville, Ark	11	Not programed.

ST. PAUL AREA

St. Cloud, Minn	1	Not programed.
Sheridan, Wyo	2	Do.
Knoxville, Iowa	3	Do.
Fort Meade, S. Dak	4	Phase IV, fiscal year 1963.
Des Moines, Iowa	5	Phase III, fiscal year 1963.
Hot Springs, S. Dak	6	Not programed.
Lincoln, Nebr	7	Phase II, fiscal years 1961–62.
Cheyenne, Wyo	8	Substantially completed.

SAN FRANCISCO AREA

Tucson, Ariz	1	Phase III, fiscal years 1960–61.
Los Angeles, Calif. (G.M. & S. portion)	2	Phase III, fiscal years 1961–62.
Oakland, Calif. (Martinez)	3	Replacement, fiscal year 1957–61.
Portland, Oreg	4	Phase I, fiscal year 1957.
Palo Alto, Calif. (Menlo Park)	5	Phase III, fiscal year 1963.
San Francisco, Calif	6	Do.
Long Beach, Calif	7	Phase II, fiscal year 1959.
Salt Lake City, Utah	8	Not programed.
Los Angeles, Calif. (NP, domiciliary portion)	9	Do.
Roseburg, Oreg	10	Do.
Whipple, Ariz	11	Do.
Walla Walla, Wash	12	Do.
American Lake, Wash	13	Do.
Boise, Idaho	14	Do.
Livermore, Calif	15	Do.
San Fernando, Calif	16	Do.
Vancouver, Wash	17	Do.

COLUMBUS AREA

Cleveland, Ohio	1	Replacement, fiscal years 1957–61.
Vaughan section of VAH, Hines, Ill	2	Not programed.
Dayton, Ohio	3	Do.
Marion, Ind	4	Do.
Danville, Ill	5	Phase IV, fiscal year 1963.
Chillicothe, Ohio	6	Not programed.
Battle Creek, Mich	7	Phase IV, fiscal year 1963.
Hines, Ill	8	Not programed.
Lexington, Ky	9	Do.
Dwight, Ill	10	Do.
Indianapolis, Ind. (Cold Spring Rd. division)	11	Do.

NOTE.—Where 2 dates are indicated, i.e. "fiscal years 1963–64," the 1st date indicates the source of technical services funds and the 2d date the source of construction funds.

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[No. 243]

COMMITTEE ON VETERANS' AFFAIRS, HOUSE OF REPRESENTATIVES

MAY 10, 1960.

Hon. ERWIN MITCHELL,
Chairman, Special Subcommittee of the House Committee on Veterans' Affairs, House of Representatives, Washington, D.C.

DEAR MR. MITCHELL: On Friday, April 29, during my appearance before your special subcommittee, I identified several areas under consideration with a view of strengthening and improving appellate operations in the Veterans' Administration. It is my impression you wished to be advised of any immediate progress, toward decisions in the areas idefinified in connection with the committee's deliberations.

I have now directed the Chairman of the Board of Veterans' Appeals to explore forthwith the matter of funds to pernit expansion of the Board by appointing additional members. At present there are 37 members. The law authorizes "not more than 50" (38 U.S.C. 4001). Aside from our own study of this problem, it is my feeling that the testimony before your special subcommittee concerning time available per case for study and decision is demonstrative and corroborative of the need for increase in Board membership.

I have directed the Chairman of the Board of Veterans' Appeals to take all feasible steps toward expansion of our training program for the Board members and supporting professional staff. This will include seminars and periodic refresher training, aimed at maximum uniformity, and quality of appellate decisions. To the same end, the Chairman is instituting a detailed study as to feasibility of an expanded system of cataloging and indexing selected appellate decisions.

A quality review system, which will afford a desirable and valuable safeguard as to uniformity and quality, is in process of development. I have directed that this system be completed and installed as quickly as possible.

The Board's procedures for rehearings on allegations of error have already been revised to provide, instead of rehearing before the same group which originally decided the matter, a procedure more nearly approaching the "en banc" rehearings of an appellate court.

The General Counsel has been directed to establish a project of critically reviewing all existing "Administrator's decisions." These are by law precedents binding on the Board of Veterans' Appeals. This review will insure that these precedents stand well in the face of the law of our times.

I believe you know that coincident with the regulatory revisions necessitated by recent codification of veterans' laws, the Veterans' Administration undertook a complete revision of its regulations with a view to greater clarity and other improvements. Veterans' Administration regulations are by law also binding on the Board of Veterans' Appeals. I should have mentioned in my oral testimony that the project of rewriting the regulations is well on the way to completion. The improvements made will provide better regulatory

criteria for the total adjudication process, including the appellate review level.

I believe the subcommittee regarded as one of the most important points discussed at the hearing Friday the matter of the Board's participation in policymaking functions. I have given this much thought and have discussed it with the Administrator. Despite our cognizance of the substantial contribution in this area made by the Board over the years and its potential for further contribution, we recognize the validity of the view that such a role may be regarded as inconsistent with the judicial detachment and autonomy we also seek to achieve. It is my conviction that the Board's coordinating role with regard to initial formulation of regulations, instructions, and similar policy matters should be modified, but in that event, means must be provided whereby the Chairman, Board of Veterans' Appeals, would have clear authority and responsibility to bring to the Administrator's attention matters which he believes the Administrator might wish to reconsider. This problem must receive further detailed study before I can advise you of the specific action being taken.

As both Mr. Stancil and I agreed before the subcommittee, we certainly are not infallible, and we do want to correct any mistakes that we identify or which are brought to our attention just as soon as possible. We seek improvement in our methods and results continually, and hope the matters outlined in this letter will constitute substantial steps forward.

May I again thank the chairman for the opportunity to appear before his special subcommittee, the penetrating interest displayed, and the courtesies extended.

Sincerely,

BRADFORD MORSE,
Deputy Administrator.

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DOCUMENTS EXPEDITING PROJECT

[No. 253]

COMMITTEE ON VETERANS' AFFAIRS, HOUSE OF REPRESENTATIVES

VETERANS' ADMINISTRATION,
OFFICE OF THE ADMINISTRATOR OF VETERANS' AFFAIRS,
Washington, D.C., June 24, 1960.

Hon. OLIN E. TEAGUE,
Chairman, Committee on Veterans' Affairs,
House of Representatives, Washington, D.C.

DEAR MR. TEAGUE: We are pleased to furnish the following information in response to your request of April 21. The alternatives or modifications to the proposed peacetime GI bills pending before your committee will be discussed in the same order that they appear in your letter.

The first two items call for estimates of the cost of providing a more limited education and training program than that available to veterans of the Korean conflict. The first item deals with a reduction of the allowances to 80 percent of the amounts provided by the Korean GI bill, while the second would call for computing educational entitlement on the basis of 1 day's entitlement (rather than 1½ days' entitlement) for each day's service. The enclosed tables set forth these estimates related to the principal types of educational bills now pending before your committee.

The administrative cost of the educational loan feature embodied in section 2 of S. 1138—the subject of your next inquiry—cannot be precisely stated. This is the provision adopted on the floor of the Senate that the ex-serviceman pursuing a program of higher education would receive education and training allowances as loans rather than as grants after the first school year if he does not attain a scholastic average sufficient to place him in the upper half of his class during the preceding school year.

The provisions of S. 1138—particularly as now drafted—would present certain administrative difficulties, not only for the Veterans' Administration but for the schools. A number of these revolve around the determination of the meaning of some key terms. For example, it is not clear whether the term "school year" refers to the regular school year of a particular educational institution or the equivalent of a school year for the individual veteran. Again, there are problems in defining the term "class" and in determining whether the veteran is in the "upper or lower" half of the class. Some of these problems could be lessened by clarifying amendments. The concept of relating educational loans to scholastic standing is inherently more complex than the "grants" provided under the existing Korean GI program.

In view of the ambiguities in the educational loan provisions of S. 1138, some of which we mentioned above, there is no firm basis for determining at this time the cost likely to be experienced in connection with its administration. In fact, a definite plan of operation

could not be developed until some of these questions were resolved. In any event, the additional responsibilities which would be placed upon the agency in connection with (*a*) the determination of whether a loan or a grant is proper, (*b*) making the loan, and (*c*) servicing the loan until final collection or cancellation, would appreciably increase the cost of administration over that experienced under the existing program. In addition to the usual internal administrative cost, we can anticipate that institutions of higher learning may, on account of the necessity to determine a veteran's competitive scholastic standing, request an increase in the reporting rate currently payable.

Your fourth inquiry is apparently directed to the provisions of S. 1138 (p. 9, lines 23–24, and p. 10, lines 1–2 and 13–16) to permit military careerists to train beyond the normal deadline date. This exception to the deadline would be a material deviation from the principle which Congress adopted for both the World War II and the Korean conflict education and training programs. These benefits were intended to assist a person whose normal civilian pursuits have been interrupted by a period of military service during war or emergency conditions to readjust to civilian life. We feel that the readjustment purpose of the education and training programs is sound and that the Congress properly established these existing programs on a temporary basis. The exception in question is not, in our view, consistent with this principle.

Your fifth request is for our views "as to the desirability of an amendment to existing law to accomplish" a new peacetime program. We understand that your question goes to the form such legislation might take—specifically, whether there would be any advantage to using the device of amending chapter 33 of title 38, United States Code, to accomplish the desired result as opposed to adding a new, largely self-contained, chapter to title 38.

Viewed this way, the choice depends to a great extent upon the degree to which any proposed program would depart from the principles underlying the existing program for Korean conflict veterans. If the program were to follow the basic pattern of the existing program it would be perfectly feasible, and would have some advantages administratively, if the legislation took the form of an amendment to chapter 33. On the other hand, if the program departed in major aspects from the existing program, the mechanics of clearly setting forth the changes might indicate the desirability of an independent chapter in the law.

Your last request refers to the Navy Holloway plan and the feasibility of adapting it to legislation for peacetime educational benefits for ex-servicemen.

The Holloway plan—originally enacted as Public Law 729, 79th Congress, now restated in chapter 601 of title 10, United States Code—refers to the regular NROTC program operated by the Department of the Navy. Its primary purpose is to develop naval and Marine Corps officers through utilization of college and university facilities. Participants in the plan are appointed as midshipmen, and are candidates for appointment as commissioned officers in the Regular Establishment. They are obligated to serve 3 years on active duty following appointment as commissioned officers, and to retain com-

missioned status for a total of 8 years. While in midshipman status as college or university students, they receive a monthly retainer of $50, uniforms, and the Department of the Navy defrays the cost of tuition, fees, and instructional equipment.

The Holloway plan differs in purpose from a veterans' readjustment program and the status of the two participant groups differs widely. Candidates for appointment as midshipmen to be trained under the Holloway plan are selected on a competitive basis from students or prospective students who will attend a relatively small number of colleges and universities which have NROTC units for this purpose. Those selected are educated by the Government primarily for the purpose of providing a source of qualified Navy and Marine officer personnel. To this end, they are provided education and training at collegiate level before they are called to active duty.

On the other hand, the program conducted for veterans is designed to assist them in readjusting to civilian life after their service. Servicemen requiring readjustment following tours of active duty in the Armed Forces are, of course, not subject to the type of selection practiced under the Holloway plan. Because of their educational level, the returning servicemen frequently train at schools below college level and, in some instances, require training through apprenticeship or job training methods.

In matters of administrative detail, the Holloway plan tends to resemble the program of education and training provided for World War II veterans by the Servicemen's Readjustment Act of 1944. Arrangements for and payment of tuition, books, etc., for Holloway plan participants are assumed by the Department of the Navy. The Veterans' Readjustment Assistance Act of 1952, which was developed after exensive studies of the operations under the World War II program, adopted the so-called "package payment principle." An education or training allowance is payable to the veteran-trainee, who then makes his own arrangements with the school of his choice for payment of tuition, fees, and like charges. The program under the 1952 act has worked well, and we would not recommend a return to the earlier system in connection with any future readjustment education and training program which might be considered.

We hope the foregoing detailed information and comments will fully with your request. Our views on legislation to provide major benefits such as education and training and loan assistance to those who sustained no disablement in their peacetime service have been presented to your committee in reports on various bills. Briefly, we do not believe that present circumstances justify these special forms of assistance for this group of ex-servicemen. However, we want to reemphasize our feeling that legislation should be enacted to provide vocational rehabilitation for those peacetime ex-servicemen who have a definite need for training to overcome an employment handicap produced by a service-connected disability.

The Bureau of the Budget has advised that there is no objection to the presentation of this report; that, as previously stated, sections 2 and 4 of S. 1138 would not be in accord with the program of the President and this would continue to be true even if section 2 were modified as outlined in your inquiry; but that a program of vocational

rehabilitation benefits for peacetime ex-servicemen with substantial service-connected disabilities would be in accord with the program of the President.

Sincerely,

SUMNER G. WHITTIER,
Administrator.

ESTIMATED MONTHLY AVERAGE TRAINEES AND DIRECT BENEFITS COSTS

[Education and training based on service between Jan. 31, 1955, and July 1, 1963]

TABLE 1.—*Entitlement computed on basis of 1½ days' entitlement for 1 day's service*

Fiscal year	With education and training rates the same as paid to Korean conflict veterans		With education and training rates 80 percent of rates paid to Korean conflict veterans [1]	
	Monthly average trainees	Cost of direct benefits	Monthly average trainees	Cost of direct benefits
1961	151,000	$201,000,000	124,000	$124,000,000
1962	310,000	412,000,000	254,000	254,000,000
1963	333,000	443,000,000	273,000	273,000,000
1964	336,000	447,000,000	274,000	274,000,000
1965	331,000	441,000,000	271,000	271,000,000
Total 1st 5-year cost		[2] 1,944,000,000		[2] 1,196,000,000

[1] The estimates supplied in tables 1–3 to show the effects of a 20 percent reduction in the rates of education and training allowances are based on reasonable assumptions as to the effect that such reduction would have on the participation rates established by experience under ch. 33 of title 38, United States Code. The VA has no actual experience applicable to the effects of such reduction.

[2] The total cost over the life of the program would, of course, be substantially greater than the cost shown for the 1st 5 years.

TABLE 2.—*Entitlement computed on basis of 1 day's entitlement for 1 day's service*

Fiscal year	With education and training rates the same as paid to Korean conflict veterans		With education and training rates 80 percent of rates paid to Korean conflict veterans [1]	
	Monthly average trainees	Cost of direct benefits	Monthly average trainees	Cost of direct benefits
1961	137,000	$183,000,000	108,000	$107,000,000
1962	280,000	373,000,000	219,000	218,000,000
1963	292,000	388,000,000	229,000	228,000,000
1964	289,000	384,000,000	226,000	225,000,000
1965	280,000	373,000,000	219,000	218,000,000
Total 1st 5-year cost		[2] 1,701,000,000		[2] 996,000,000

[1] The estimates supplied in tables 1–3 to show the effects of a 20 percent reduction in the rates of education and training allowances are based on reasonable assumptions as to the effect that such reduction would have on the participation rates established by experience under ch. 33 of title 38, United States Code. The VA has no actual experience applicable to the effects of such reduction.

[2] The total cost over the life of the program would, of course, be substantially greater than the cost shown for the 1st 5 years.

TABLE 3.—*Entitlement computed on basis of 1½ days' entitlement for 1 day's service, but allowances on mixed grant and loan basis as provided in sec. 2 of S. 1138*

Fiscal year	With education and training rates the same as paid to Korean conflict veterans		With education and training rates 80 percent of rates paid to Korean conflict veterans [1]	
	Monthly average trainees	Cost of direct benefits	Monthly average trainees	Cost of direct benefits
1961	134,000	$178,000,000	106,000	$2105,000,000
1962	271,000	360,000,000	215,000	212,000,000
1963	285,000	379,000,000	226,000	223,000,000
1964	281,000	375,000,000	223,000	220,000,000
1965	272,000	362,000,000	217,000	214,000,000
Total 1st 5-year cost		[2 3] 1,654,000,000		[2 3] 974,000,000

[1] The estimates supplied in tables 1–3 to show the effects of a 20 percent reduction in the rates of education and training allowances are based on reasonable assumptions as to the effect that such reduction would have on the participation rates established by experience under ch. 33 of title 38, United States Code. The VA has no actual experience applicable to the effects of such reduction.

[2] Does not include retroactive payments for fiscal year 1960 as would be provided under S. 1138. In both estimates approximately 8 percent of the cost of direct benefits for the 1st 5 years would be for loans. Each of these estimates assumes that persons taking loans would take as much as they would have received on a grant basis.

[3] The total cost over the life of the program would, of course, be substantially greater than the cost shown for the 1st 5 years.

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